POOR LEGIBILITY

PORTIONS OF THIS DOCUMENT MAY BE UNREADABLE, DUE TO THE QUALITY OF THE ORIGINAL

NUS CORPORATION
1927 LAKESIDE PARKWAY
SUITE 614
TUCKER, GEORGIA 30084
404-938-7710

220/

C-586-6-0-116

June 15, 1990

Mr. A. R. Hanke
Site Investigation and Support Branch
Waste Management Division
Environmental Protection Agency
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Date: 6-21-90
Site Disposition: NFRAP
EPA Project Manager: Klein

Subject: Screening Site Inspection, Phase I
Oil Services Co., Inc.
Columbia, Maury County, Tennessee
EPA ID No. **TND089558019**
TDD No. F4-8803-29

Dear Mr. Hanke:

FIT 4 conducted a screening site inspection for the Oil Services Co., Inc. in Columbia, Maury County, located in south-central Tennessee. Phase I of this inspection included a review of EPA and state file material, completion of a target survey and an offsite reconnaissance of the facility and the surrounding areas.

Oil Services Co., Inc. operates a facility at 202 Hill Street in Columbia. Customers of the Oil Services Company are industries in Kentucky, Tennessee and Alabama. The company sells a service which allows customers to keep their waste at manageable levels without becoming a storage facility, while Oil Services gathers compatible wastes from several companies to make a full trailer load. These wastes include spent halogenated and non-halogenated solvents, heavy metals, plating bath residues, cyanide, and waste oils, acids and bases. The full trailer load of hazardous waste is then transported from the Hill Street facility to the Chemical Waste Management facility in Emelle, Alabama, for licensed disposal (Refs. 1, 2).

Oil Services also operates a treatment facility nearby at 408 Santa Fe Pike (EPA ID No. TND980515779). Bulk loads of liquid waste from the transporter facility at Hill Street are treated at the Santa Fe Pike facility. The resulting sludge is then transported by the Hill Street facility to a licensed landfill (Ref. 1, 2). The treatment facility has interim status under RCRA, but is currently undergoing closure. The city of Columbia, the owner of the treatment plant, has requested that OSCO (the current name for Oil Services Co.) vacate the plant due to recurring problems. They will move by October of 1990. Tennessee Division of Solid Waste Management is considering the issuance of a corrective action order to OSCO before closure is complete. The treatment plant and the transporter facility will relocate in Nashville (Ref. 3).

Oil Services Co., Inc. filed a Part A application on November 17, 1980, identifying itself as a hazardous waste facility which treats, stores or disposes of its waste onsite. This was true for the facility on Santa Fe Pike, but not for the transporter facility on Hill Street. The Part A application for the Hill Street location was withdrawn and interim status was terminated on October 3, 1984 (Ref. 4). The Part A application for the treatment facility on Santa Fe Pike was submitted in 1985 (Ref. 2).

Two other locations are associated with the Oil Services, Co., Inc. facility. The first is the Ken Harris Oil-Carters Creek Pike location (TND981015878), a temporary storage and treatment lagoon of waste oil streams which was used from 1979-1980. Ken Harris was the president of Oil Services Company at this time and was having negotiation problems with the city of Columbia concerning the lease of the treatment plant on Santa Fe Pike. Restrictions were placed on the treatment facility, so Mr. Harris excavated a pond in his own back yard outside Columbia and treated oily wastes there. After this short operation was completed, the pond was filled in (Ref. 5). The second location is 6 miles south of Columbia in the Ashworth community on Frank Harris' property. It is not known if Frank Harris is related to Ken Harris. Chemical wastes were disposed of on Frank Harris' property illegally by Oil Services sometime prior to August of 1979. The Tennessee Division of Solid Waste Management ordered removal and cleanup operations at the Harris property and issued warnings to both Frank and Ken Harris upon approval of the cleanup in August of 1979. No EPA ID number was issued for this site (Ref. 6, 7). Oil Services Co., Inc.; OSCO, Inc.; Ken Harris Oil-Carters Creek Pike and the Frank Harris property are all separate, non-contiguous sites which are related to one another but should be treated independently.

In 1987, Oil Services Co., Inc., the transporter facility, was issued a 90-day emergency permit to temporarily store hazardous waste discovered at a school in Lewisburg, Tennessee. The waste was contained in 150 55-gallon DOT-approved drums, which were stored in two secondary containment trailers. No spills or violations are recorded from this emergency permit (Ref. 8).

An official from the Columbia water treatment plant reported that citizens complained several times that Oil Services had discharged substances into the creek that runs behind the transporter facility. Samples were taken, but nothing was detected in the samples (Ref. 9). No other records of spills or violations at the transporter facility were found during the reconnaissance or file search.

Oil Services Co., Inc., is located in the hydrogeologic setting referred to as the non-glaciated central groundwater region of central Tennessee. The facility is located on the western limb of the Nashville dome which has been subsequently eroded to form a topographic basin. This region is characterized by thin regolith over fractured sedimentary rock (Ref. 10, pp. 228, 229). The climate is temperate with a net annual precipitation of 13 inches (Ref. 11, pp. 43, 63). One-year, 24-hour rainfall is approximately 3.2 inches (Ref. 12, p. 93). In Maury County, multiple aquifers occur within the Ordovician limestones that underlie the site (Ref. 13, p. 6). These aquifers are composed of the formations described below, in descending order.

The Fernvale Formation consists of coarse-grained, varicolored limestone that ranges in thickness from 0 to 75 feet. The Leipers Limestone is dark gray and phosphatic. It ranges in thickness from 0 to 100 feet (Ref. 13, p. 8). The Nashville Group consists of the Catheys Limestone, Bigby-Cannon Limestone, and Hermitage Formation. These formations consist of blue and gray, fine to medium-grained limestones that are locally phosphatic or argillaceous. Together, they range in thickness from 110 to 400 feet (Ref. 13, pp. 8, 17, 19, 21).

The upper three formations of the Stones River Group are the Carters Limestone, Lebanon Limestone, and Ridley Limestone. The Carters Limestone is light brown and dolomitic with bentonite beds. The Lebanon Limestone is blue-gray and fine-grained with shale. The Ridley Limestone is light gray, massive limestone, with few impurities. The Stones River Group has an average thickness of 285 feet (Ref. 13, pp. 8, 13, 16).

Karst solution features have developed in each of these limestone stratigraphic layers. Large volumes of water are transmitted through the limestones laterally as well as vertically. All of the aquifers are hydraulically interconnected. The degree of secondary porosity due to karst development varies between limestone. This results in some aquifers being more productive than others (Ref. 13, p. 7). Rocks of this type have hydraulic conductivities ranging from 1×10^{-3} to 1×10^{-7} cm/sec (Ref. 14, p. 29). Depth to water table at the site is approximately 15 feet (Ref. 15).

Residents in Columbia obtain their drinking water from the municipal system, which has an intake on the Duck River, 1.6 miles upstream from the facility. Few, if any, people within 3 miles of the site use private wells for drinking water. The city water is a more reliable source of water; wells and springs in the county frequently run dry. Also, residents are cautious about drinking groundwater. It is suspected that industries in the area have polluted groundwater and are responsible for the high rate of cancer in Maury County (Ref. 16). For these reasons, it is assumed that the nearest well would be no closer than 2 miles or outside the city limits of Columbia. If residents did use well water, it would be limited to lawn-watering and car-washing. At least 100 persons might be expected to use the groundwater for this purpose.

There are no drinking water intakes within 15 miles downstream from the site. The creek that runs behind the site flows to the east for approximately 0.3 mile and empties into the Duck River, which flows to the north and west of Columbia (Ref. 17). The Duck River is used for recreation as well as for the municipal supply (Ref. 9).

Based on the above referenced information, it is recommended that no further remedial action be planned for the Oil Services Co., Inc. If you have any questions, please contact me at NUS Corporation.

Very truly yours,

Jerri Higgins
Geologist

Approved:

JH/dwf

Enclosures

cc: Charlie Stevens

REFERENCES

1. EPA Hazardous Waste Permit Application (EPA Form 3510) for Oil Services Company, Inc., 202 Hill Street, Columbia, TN. Filed by Kenneth H. Harris, November 17, 1980.

2. EPA Hazardous Waste Permit Application (EPA Form 3510) for Oil Services Company, Inc., 408 Santa Fe Pike, Columbia, TN. Filed by Stephen R. Blume, December 2, 1985.

3. Dale Ozier, Division of Solid Waste Management, telephone conversation with Jerri Higgins, NUS Corporation, May 22, 1990. Subject: Current status of Oil Services Co., Inc. transporter and treatment facilities.

4. Tennessee Department of Health and Environment (TDHE), Division of Solid Waste Management, Notice of Interim Status Termination and Denial of Permit for Oil Service Company, October 3, 1984.

5. Potential Hazardous Waste Site Preliminary Assessment (EPA Form 2070-12) and attachments for Ken Harris Oil-Carters Creek Pike Facility. Filed by Walker F. Howell, TDHE Division of Solid Waste Management, June 17, 1985.

6. Bobby W. Morrison, TDHE, Division of Solid Waste Management, letter to Frank Harris, property owner, August 29, 1979. Subject: Cleanup of addressee's property and subsequent warning against further dumping.

7. Bobby W Morrison, TDHE, Division of Solid Waste Management, letter to Ken Harris, president, Oil Services Company, August 31, 1979. Subject: Cleanup of Frank Harris' property and subsequent warning against further dumping.

8. TDHE, DSWM Emergency Permit (Number TND089558019) issued to OSCO, Inc., May 5, 1987.

9. NUS Corporation Field Logbook No. F4-770 for Oil Services Co., Inc., TDD No. 8803-29. Documentation of facility reconnaissance, April 5-6, 1988.

10. Linda Aller, et al., DRASTIC: A Standardized System for Evaluating Ground Water Pollution Potential Using Hydrogeologic Settings, EPA-600/2-87-035 (Ada, Oklahoma: EPA, April 1987).

11. U.S. Department of Commerce, Climatic Atlas of the United States (Washington, D.C.: GPO, June 1968) Reprint: 1983, National Oceanic and Atmospheric Administration.

12. U.S. Department of Commerce, Rainfall Frequency Atlas of the United States, Technical Paper Number 40 (Washington D.C.: GPO, 1961).

13. Roy Newcome, Jr., Ground Water in the Central Basin of Tennessee, Tennessee Department of Conservation, Division of Geology Investigations Report No. 4 (Nashville, Tennessee, 1958).

14. R. Allen Freeze and John A. Cherry, Groundwater (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1979).

15. U.S. Geological Survey, 7.5 minute series Topographic Maps of Tennessee: Columbia 1965, scale 1:24,000.

16. Ann Baker, executive secretary, Maury County Water System, telephone conversation with Jerri Higgins, NUS Corporation, May 22, 1990. Subject: Sources and distribution of drinking water in Columbia, TN and Maury County, TN.

17. U.S. Geological Survey, 7.5 minute series Topographic Quadrangle Maps of Tennessee: Columbia 1965, Godwin 1965, Carters Creek 1965 (Photorevised 1982), Glendale 1947 (Photorevised 1981), scale 1:24000.

Oil Service Company
Emery County 60-37

Reference No. 1

PART A

SUSPENDED PER

OWNER/OPERATOR'S REQUEST

TO WITHDRAW

AWAITING VERIFICATION

BY FIELD OFFICE

Interim Status
Withdrawn
12/22/83

Please print or type in the unshaded areas only
(fill—in areas are spaced for elite type, i.e., characters/inch).

Form Approved OMB No. 158-R0175

FORM 1 GENERAL — EPA — U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER: F TND089558019 (A) (C) (D)

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

001002

RECEIVED
EPA REGION IV
NOV 19 3 11 PM '80

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill—in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill—in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold—faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	
B. Does or will this facility *(either existing or proposed)* include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	
D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP: Ci1 Service Company INC.

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2 Harris Kenneth President	615 381 4000

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX:

3 202 Hill Street

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 Columbia	TN	38401

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5 202 Hill Street

B. COUNTY NAME

Maury

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
6 Columbia	TN	38401	

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
7 (specify) NA	7 (specify)
C. THIRD	**D. FOURTH**
7 (specify)	7 (specify)

VIII. OPERATOR INFORMATION

A. NAME: Harris Kenneth

B. Is the name listed in Item VIII-A also the owner? [X] YES [ ] NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)
F = FEDERAL, M = PUBLIC (other than federal or state), S = STATE, O = OTHER (specify), P = PRIVATE
P (specify)

D. PHONE (area code & no.): A 615 381 4999

E. STREET OR P.O. BOX: 202 Hill Street

F. CITY OR TOWN: Columbia

G. STATE: TN

H. ZIP CODE: 38401

IX. INDIAN LAND

Is the facility located on Indian lands? [ ] YES [X] NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)
9 N	9 P
B. UIC (Underground Injection of Fluids)	**E. OTHER (specify)**
9 U	9 (specify)
C. RCRA (Hazardous Wastes)	**E. OTHER (specify)**
9 R	9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Oil Service Company is an environmental company engaged in selling the services of Chemical Waste Management, a landfill facility, at Emelee, Alabama. We extend a service of less than truck load quantities to industry in Kentucky, Tennessee, and Alabama. We stage compatible drummed waste on van trailers and transport loads when completed to the Emelee site, approximately, every five days. Full loads of drummed waste are, also, transported, and some bulk loads of liquid waste, which are treated in the site's lagoons.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Kenneth H. Harris	Kenneth H Harris	11-17-80

COMMENTS FOR OFFICIAL USE ONLY

C

Please print or type in the unshaded areas (fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-S80004

FORM 3 RCRA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER: F T N D 0 8 9 5 5 8 0 1 9 (T/A) 3 (C) 1

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

[X] 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*: C 8 | YR. 7 8 | MO. 1 1 | DAY 1 5

[ ] 2. NEW FACILITY *(Complete item below.)*

FOR NEW FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN: YR. | MO. | DAY

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

[ ] 1. FACILITY HAS INTERIM STATUS

[ ] 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR OR GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

(C) DUP (T/A) 1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S02	600	G		5				
X-2	T03	20	E		6				
1		NA			7				
2					8				
3	S01	24,750	G		9				
4	S02	49,000	G		10				

Continued from the front.

III. PROCESSES *(continued)*

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES *(code "T04")*. FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. **EPA HAZARDOUS WASTE NUMBER** — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. **ESTIMATED ANNUAL QUANTITY** — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste*(s)* that will be handled which possess that characteristic or contaminant.

C. **UNIT OF MEASURE** — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. **PROCESSES**

1. PROCESS CODES:
   For listed hazardous waste: For each listed hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
WTND089558019 T/A 5 C 1	W DUP T/A 2 C DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D000 D001	1,126,000	P	S01 S02	Oil Service Company "brokers"
2	F008	222,000	P	S01	The services of Chemical Waste Management at Emelee, Alabama.
3	D002	440,000	P	S01	We transport full van loads of waste ~~material to the landfill and, also,~~
4	F001	48,000	P	S01	bulk tanker loads for waste processing ~~at the above site. Along with this~~
5	D000	336,600	P	S01	we offer a unique service to our
6	K062	870,000	P	S01	customers in that we will pickup less than full trailer loads of drummed
7	F005	18,000	P	S01	waste and stage on our vans, ~~adding compatible waste until the trailer is~~
8	U013	20,000	P	S01	loaded, and then transport immediately ~~to the landfill. This encourages our~~
9	F003	43,200	P	S01	customer to keep their waste at very
10	D004	166	P	S01	small manageable levels, and serves to compliment environmental goals by
11	D005	167	P	S01	keeping the waste product moving to ~~the landfill with all deliberate speed.~~
12	D006	166	P	S01	Staging on our van trailers for any ~~given load, usually, does not exceed~~
13	D007	167	P	S01	ten days. We are unsure as to whether
14	D008	167	P	S01	our facility qualifies as a storage facility, but in order to be in com-
15	D010	167	P	S01	pliance in case we are considered to be a storer, we are requesting the
16	P030	82,500	P	S01	appropriate permit.
17				PK.	* Please observe an aerial photograph
18					which shows our wastewater treatment plant and the solid waste trailer
19					staging area; both facilities are on one map.
20					
21					
22					
23					
24					
25					
26					

EPA Form 3510-3 (6-80)

CONTINUE ON REVERSE

Continued from the front.

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. (enter from page 1)

F	T	N	D	0	8	9	5	5	8	0	1	9	3	6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail).*

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground—level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail).*

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)
35 37 — 22 0 —	85 02 — 33 0 —

VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. (area code & no.)
E	

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F	G		

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
Kenneth H. Harris	Kenneth H. Harris	11-17-80

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
Kenneth H. Harris	Kenneth H. Harris	11-17-80

November 15, 1983

Mr. Ken H. Harris, President
Oil Service Company, Inc.
202 Hill Street
Columbia, Tennessee 38401

Re: Withdrawal of the hazardous waste permit application for Oil Service Company, Inc., TND089553019

Dear Mr. Harris:

This letter is to acknowledge receipt of your request for withdrawal of your application for a permit under the Tennessee Hazardous Waste Management Act, as amended, TCA 68-46-101, et. seq. Your letter indicated that you no longer need a permit to store hazardous wastes in containers or tanks.

It has been our general experience that the hazardous waste regulations and subsequent amendments that have been adopted since the effective date of the regulations have caused confusion and have been subjected to misinterpretations. This confusion on the part of the regulated community has been compounded, due to the State's and EPA's overlapping responsibilities for implementation of the hazardous waste regulatory program during the period of interim authorization.

Withdrawal of your permit application constitutes revocation of interim status, as discussed in Rule 1200-1-11-.07(3)(e) of the "Rules Governing Hazardous Waste Management in Tennessee".

In light of the foregoing, our plans are to proceed as follows. We will place your permit application in our "suspense" file. This action, in essence, revokes your interim status. However, your request will be reviewed by our field office. If they agree that you do not need a permit, we will notify you of this determination, your application will be formally withdrawn, and inactivated.

Finally, your request to withdraw interim status means that you may not treat, store, or dispose of hazardous waste without a permit.

If for any reasons you wish to reconsider this withdrawal request, please advise this office within the next 10 days. If you need further clarification, please contact Wayne Gregory of my staff at (615) 741-3424.

Sincerely,

Tom Tiesler, Director
Division of Solid Waste Management

TT/LL/sh SW-30

cc: SWM - Nashville Office
EPA - Region IV
Maury County Health Department
South Central Regional Office

...print or type in the unshaded areas only
fill-in areas are spaced for elite type, i.e., 12 characters/inch).

60 — 2½ Form Approved OMB No. 158-R0175

FORM 1 GENERAL — EPA — Reference No. 2

I. EPA I.D. NUMBER
F TND980515779

LABEL ITEMS
I. EPA I.D. NUMBER — TND980515779
III. FACILITY NAME — OIL SERVICE COMPANY
V. FACILITY MAILING ADDRESS — P.O. BOX 1203, COLUMBIA, TN 38402
VI. FACILITY LOCATION — 408 SANTA FE PIKE, COLUMBIA, TN 38401

GENERAL INSTRUCTIONS
If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (*the area to the left of the label space lists the information that should appear*), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI (*except VI-B which must be completed regardless*). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	
B. Does or will this facility (*either existing or proposed*) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	
D. Is this a proposed facility (*other than those described in A or B above*) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY
1 SKIP OIL SERVICE COMPANY

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2 STEPHEN R. BLUME PRESIDENT	615 381 4999

V. FACILITY MAILING ADDRESS
A. STREET OR P.O. BOX
3 P.O. Box 1203

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 COLUMBIA	TN	38402

VI. FACILITY LOCATION
A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER
5 408 SANTA FE PIKE

DOCKET NO. #23

B. COUNTY NAME
MAURY

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
6	TN		

(E) FROM THE FRONT

CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
(specify) NA	C 7 (specify)
C. THIRD	**D. FOURTH**
(specify)	C 7 (specify)

OPERATOR INFORMATION

A. NAME: PHEN R. BLUME

B. Is the name listed in Item VIII-A also the owner? ☐ YES ☐ NO

STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

FEDERAL / STATE / PRIVATE — M = PUBLIC (other than federal or state); O = OTHER (specify): P (specify)

D. PHONE (area code & no.): C A 615 381 4999

E. STREET OR P.O. BOX: SANTA FE PIKE

F. CITY OR TOWN	G. STATE	H. ZIP CODE
LUMBIA	TN	38401

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

EXISTING ENVIRONMENTAL PERMITS

NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources): C T 1 — 9 P
UIC (Underground Injection of Fluids)	E. OTHER (specify): C T 1 — 9 (specify)
C. RCRA (Hazardous Wastes)	E. OTHER (specify): C T 1 — 9 (specify)

to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show ine of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste t, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface odies in the map area. See instructions for precise requirements.

NATURE OF BUSINESS (provide a brief description)

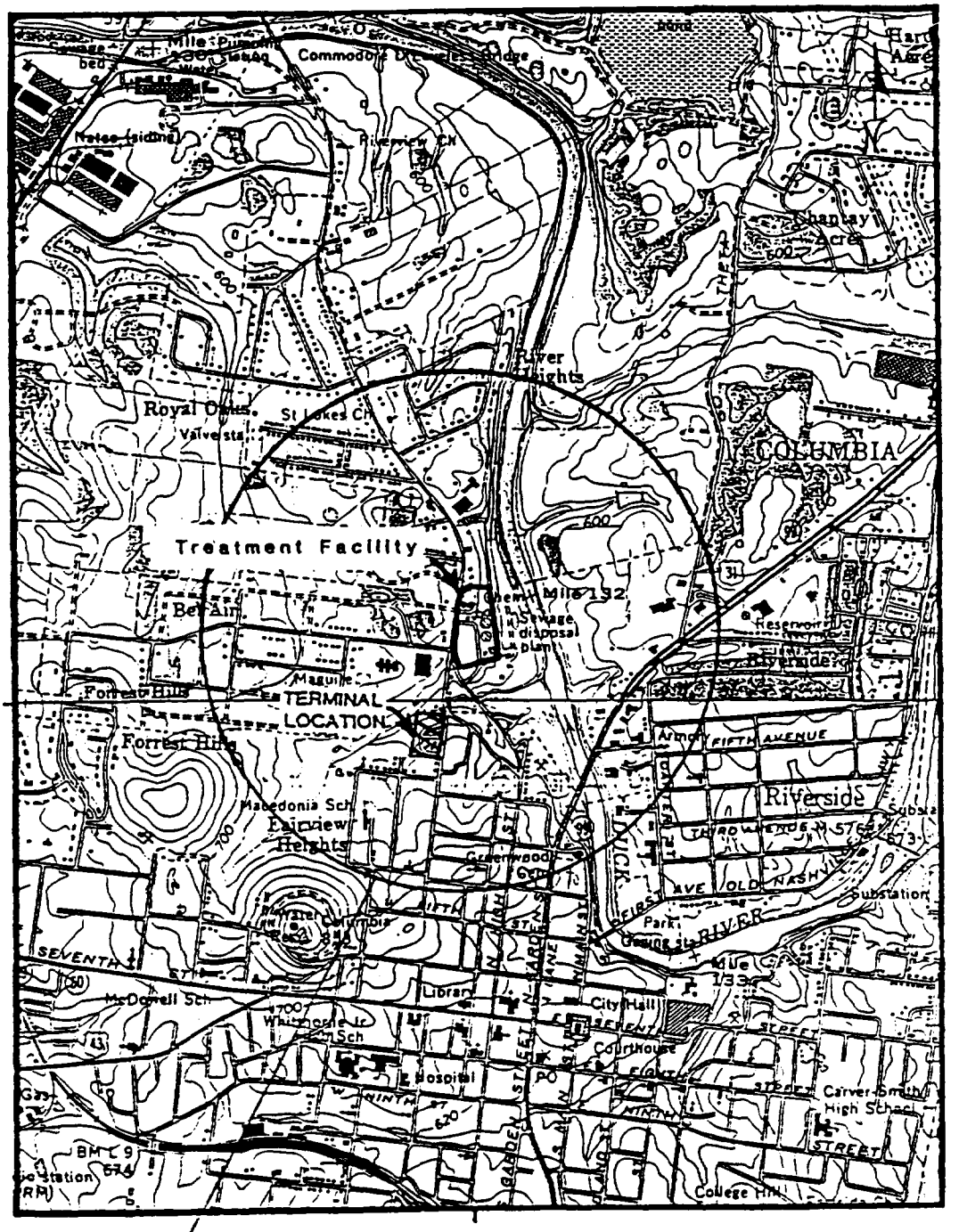
Service Company (OSCO) is an industrial waste management company which nsports many waste materials for disposal or recycling to various facilities. O takes water soluable oils and wastewaters into its pretreatment plant in umbia where liquids and solids are separated using pH adjustment. Waste acids bases are used in the treatment process and are also neutralized. Treated er is discharged to the POTW when standards are met and solids are transport- to a secure landfill.

CERTIFICATION (see instructions)

I under penalty of law that I have personally examined and am familiar with the information submitted in this application and all ments and that; based on my inquiry of those persons immediately responsible for obtaining the information contained in the on, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting rmation, including the possibility of fine and imprisonment.

A. OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
PHEN R. BLUME PRESIDENT	Stephen R. Blume	12/2/85

XI FOR OFFICIAL USE ONLY



NOTE: Above Map Taken From USGS 7.5 Minute Quadrangles Godwin (57-NE) And Columbia (57-SE)

Figure 1.1

LOCATION MAP

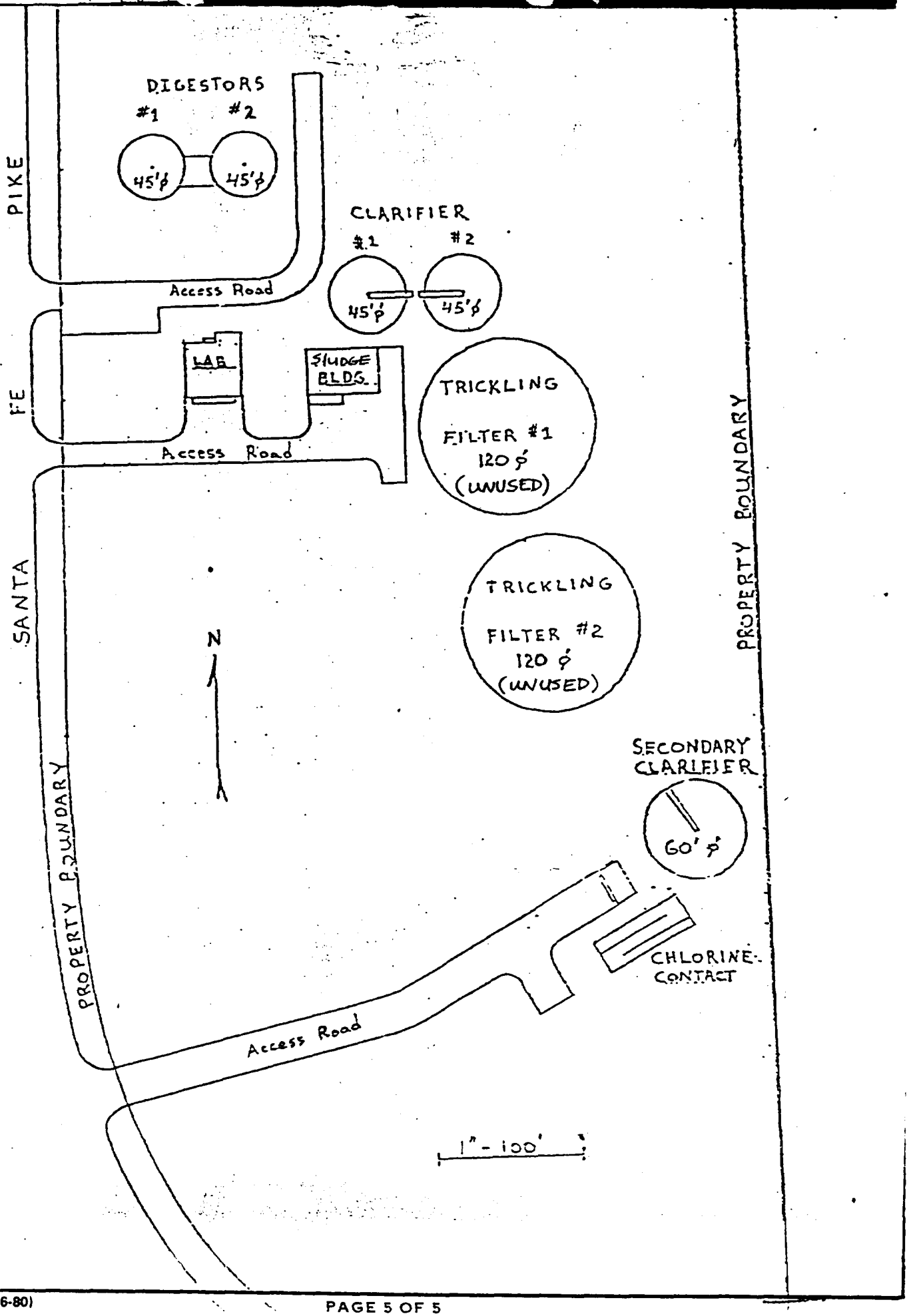
OIL SERVICE COMPANY, INC.

COLUMBIA, TN

Continued from page 4.

Form Approved OMB No. 158-S80004

V. FACILITY DRAWING *(see page 4)*



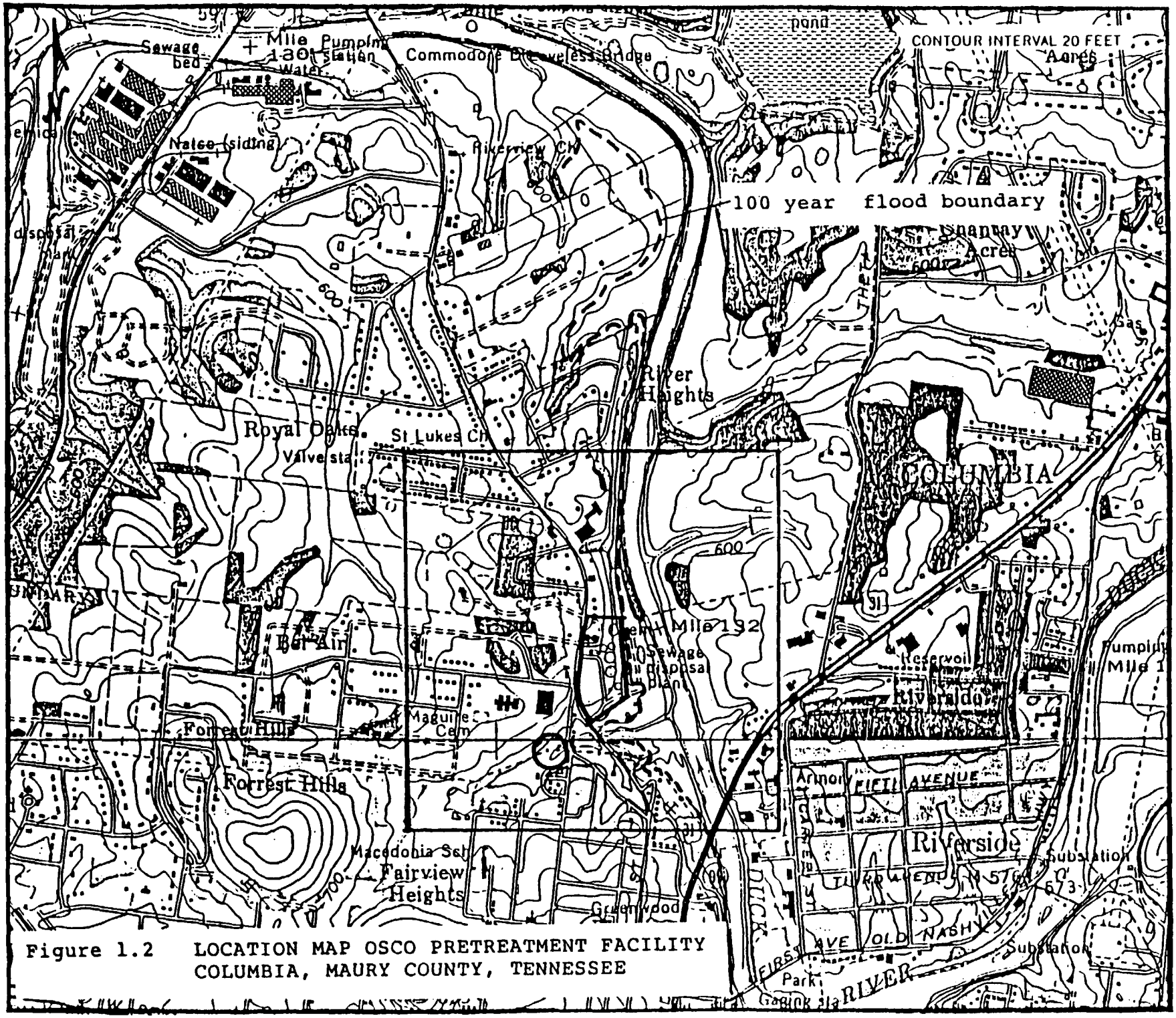
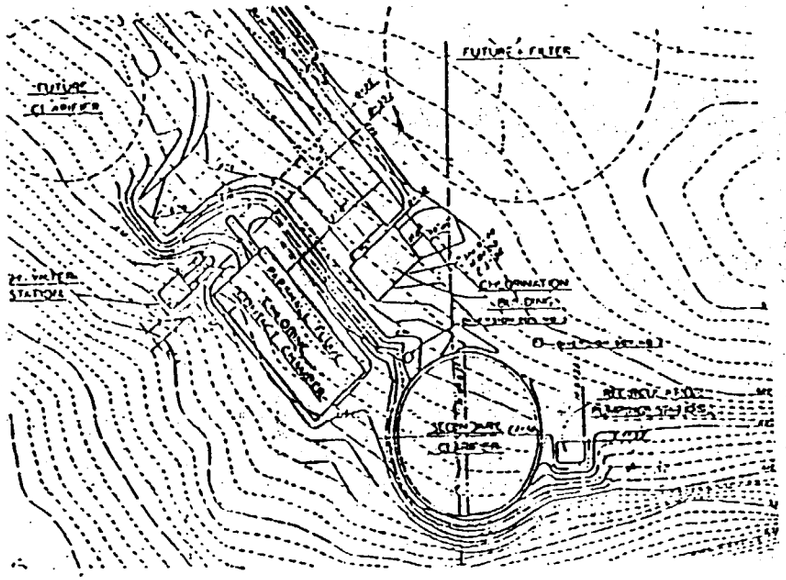
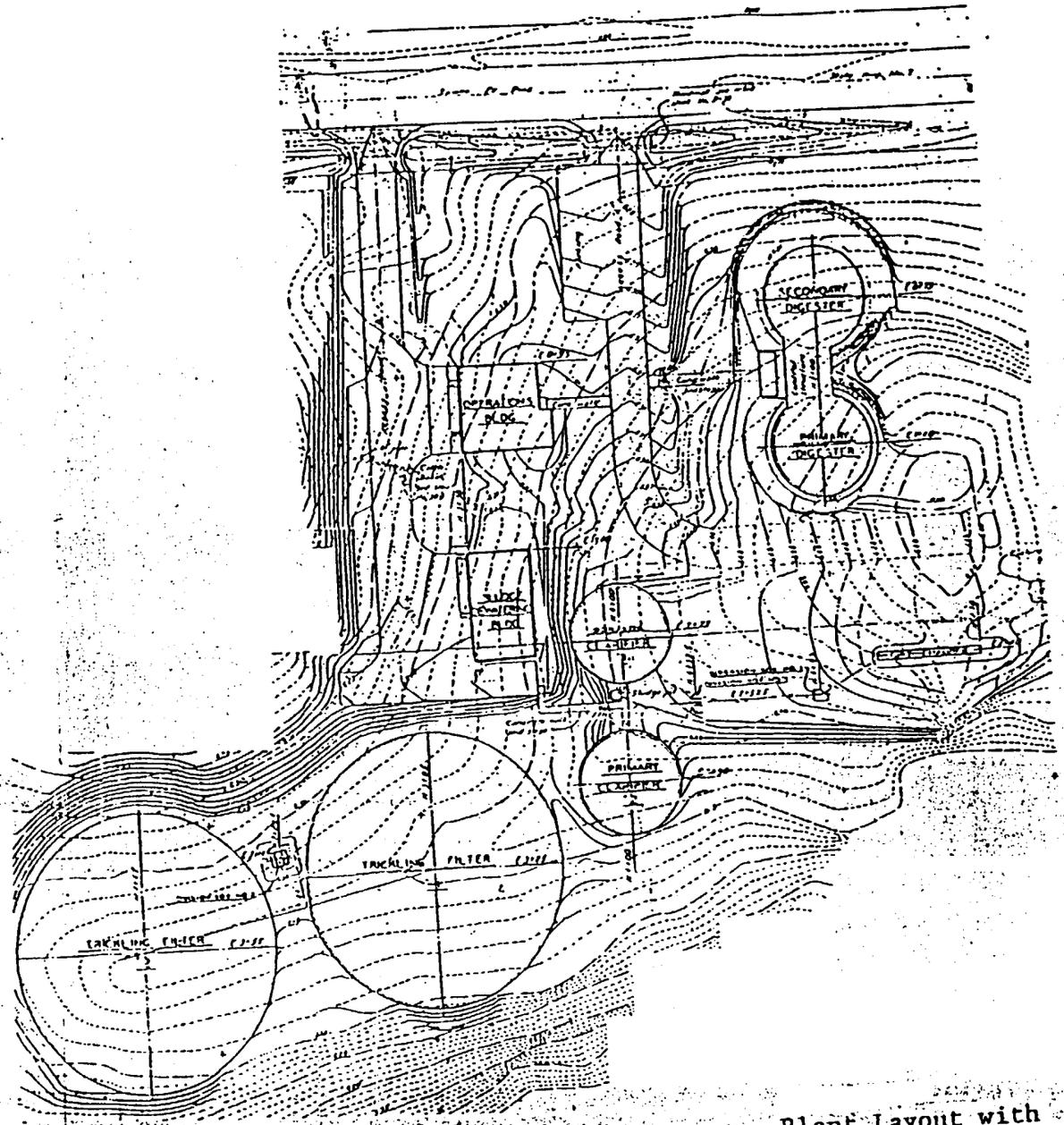


Figure 1.2 LOCATION MAP OSCO PRETREATMENT FACILITY
COLUMBIA, MAURY COUNTY, TENNESSEE





Plant Layout with
Topographic Delineation

Please print or type in the unshaded areas only (fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-S80004

FORM 3 RCRA

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER

F TND980515779

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

C 8 — YR. | MO. | DAY — FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

☐ 2. NEW FACILITY *(Complete item below.)*

YR. | MO. | DAY — FOR NEW FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

☐ 1. FACILITY HAS INTERIM STATUS

☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. **PROCESS CODE** – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. **PROCESS DESIGN CAPACITY** – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C DUP — T/A C 1

LINE NUMBER	A. PROCESS CODE (from list above)	B. 1. AMOUNT (specify)	B. 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	G	
X-2	T 0 3	20	E	
1	S 0 2	475,000	G	
2	T 0 1	33,333	G	
3				
5				
6				
7				
8				
9				

ntinued from the front.

I. PROCESSES *(continued)*

SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES *(code "T04")*. FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

. DESCRIPTION OF HAZARDOUS WASTES

EPA HAZARDOUS WASTE NUMBER — Enter the four—digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four—digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non—listed waste*(s)* that will be handled which possess that characteristic or contaminant.

UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

PROCESSES

1. PROCESS CODES:
   For listed hazardous waste: For each listed hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non—listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

TE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by e than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

AMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* — A facility will treat and dispose of an estimated 900 pounds year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	K054	900	P	T03 D80	
2	D002	400	P	T03 D80	
3	D001	100	P	T03 D80	
4	D002				included with above

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)														FOR OFFICIAL USE ONLY												
W	T	N	D	9	8	0	5	1	5	7	7	9	T/A	C	W	D	U	P	T/A	C	D	U	P			
														1						2						

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

W	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D 002	43,000	P	S02	T01			Treated water is discharge
2	D 004	1,500	P	S02	T01			to POTW when standards are
3	D 005	1,500	P	S02	T01			met. Solids in tank botto
4	D 006	1,500	P	S02	T01			are transported to hazardo
5	D 007	17,000	P	S02	T01			waste landfill.
6	D 008	17,000	P	S02	T01			
7	D 009	1,500	P	S02	T01			
8	D 010	1,500	P	S02	T01			
9	D 011	1,500	P	S02	T01			
10	F 006			S02	T01			
11	F 007			S02	T01			
12	F 008			S02	T01			
13	F 009			S02	T01			
14	F 019			S02	T01			
15	K 051			S02	T01			
16	K 062			S02	T01			
17	K 086			S02	T01			
18								
19								
20								
21								
22								
23								
24								
25								
26								

ontinued from the front.

V. DESCRIPTION OF HAZARDOUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. (enter from page 1)

T	ND	9	8	0	5	1	5	7	7	9	T/A	C
												6

FACILITY DRAWING

l existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail).*

. PHOTOGRAPHS

ll existing facilities must include photographs *(aerial or ground—level)* that clearly delineate all existing structures; existing storage, eatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail).*

I. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)
35 37 38	87 2 15

II. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. (area code & no.)
CITY OF COLUMBIA, TENNESSEE	615-388-4400

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
NORTH MAIN STREET	C G COLUMBIA	TN	38401

OWNER CERTIFICATION

ertify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached cuments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the mitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, luding the possibility of fine and imprisonment.

NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
CITY OF COLUMBIA, TN CITY MANAGER Barrett H. Jones	Barrett H. Jones	Nov 14, 1985

OPERATOR CERTIFICATION

ertify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached cuments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the mitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, luding the possibility of fine and imprisonment.

NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
Stephen R. Blume President	Stephen R. Blume	12/2/85

Nancy D. 60-51
60-106 file

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT
CUSTOMS HOUSE
701 BROADWAY
NASHVILLE, TENNESSEE 37219-5403

April 22, 1986

Mr. Stephen R. Blume, President
OSCO Treatment Systems, Inc.
P. O. Box 1203
Columbia, TN 38402

RE: Revised Part A permit application dated 4/11/86
OSCO Treatment Systems, Inc.
TND 980515779

Dear Mr. Blume:

The Division has reviewed your revised Part A permit application and found it to be acceptable.

Under interim status you are able to conduct the following processes at the following design capacities:

S02	475,000 Gallons
T01	33,333 Gallons

You are authorized to only handle the following waste codes at the estimated annual quantities with the S02 and T01 processes:

D002	43,000 lbs.	F003	1,000 Tons
D004	1,500 lbs.	F004	1,000 lbs.
D005	1,500 lbs.	F005	1,000 lbs.
D006	1,500 lbs.	F006	1,000 lbs.
D007	17,000 lbs.	F007	1,000 lbs.
D008	17,000 lbs.	F008	1,000 lbs.
D009	1,500 lbs.	F009	1,000 lbs.
D010	1,500 lbs.	F019	1,000 lbs.
D011	1,500 lbs.	K051	1,000 lbs.
F001	1,000 lbs.	K062	1,000 lbs.
F002	1,000 lbs.	K086	200 Tons.

If you have any questions, please feel free to call me at (615) 741-3424.

Sincerely,

M. Edward Cox, Jr.

M. Edward Cox, Jr.
Permits and Quality Assurance

cc: SWM-Nashville Field Office

8

NUS CORPORATION AND SUBSIDIARIES		*TELECON NOTE*
–	Reference No. 3	–

CONTROL NO.	**DATE:** May 22, 1990	**TIME:** 1130

DISTRIBUTION:

Oil Services Co., Inc.
F4-8803-29

BETWEEN: Dale Ozier	**OF:** Tennessee Department of Health, Division of Solid Waste Management	**PHONE:** (615) 381-3690

AND: Jerri Higgins, NUS Corporation

DISCUSSION:

Dale was contacted to obtain current information on the RCRA status of Oil Services and clear up confusion about the transport and treatment facilities. His involvement has been with the treatment facility located at 408 Santa Fe Pike only. Oil Services is now known as OSCO, Inc. OSCO is operating the treatment facility under interim status. Although their Part B was submitted, they never received permit status. Presently they are undergoing closure at the treatment facility. Due to problems and violations, the city of Columbia, who owns the property, has requested they leave by October 1990.

The Tennessee Division of Solid Waste Management (DSWM) is considering the issuance of a corrective action order under HSWA, separate from the closure plan. DSWM will recommend that cleanup of the entire site be conducted, rather than just the cleanup of units within the site boundary. OSCO is permitted to handle characteristic wastes, which include those with high pH or low flashpoint, such as waste acids and bases, waste oil, and heavy metals.

OSCO will relocate in Nashville after October 1990. They have already applied for a permit at their new location. The main offices will also be moved to the Nashville area.

60-37

Reference No. 4

NOTICE OF INTERIM STATUS TERMINATION AND DENIAL OF A PERMIT

Effective Date of this Determination: Upon receipt of this Notice

Facility Name: Oil Service Company, Inc.

Installation Identification Number: TND 08 955 8019

Location: 202 Hill Street
Columbia, TN 38401

Facility Owner: Oil Service Company, Inc.
202 Hill Street
Columbia, TN 38401

Facility Operator: Oil Service Company, Inc.
202 Hill Street
Columbia, TN 38401

After due consideration of the facts applicable to and the requirements and policies expressed in the Tennessee Hazardous Waste Management Act and appropriate regulations, the Commissioner has determined that the interim status of this facility should be terminated and the permit denied.

Oil Service Company, Inc. is hereby advised that in accordance with T.C.A. 68-46-113(a)(2) it may secure a review of the necessity for or reasonableness of this action by filing with the Commissioner, a written petition setting forth the grounds and reasons for objection and asking for hearing in the matter involved before the Solid Waste Disposal Control Board. The hearing will be held in accordance with T.C.A. 4-5-101 et seq., and Oil Service Company, Inc. has the right to be represented by counsel.

The administrative record with respect to this determination is maintained at the Division of Solid Waste Management, 701 Broadway, 4th Floor, Custom House, Nashville, Tennessee 37203.

Tom Tiesler

Tom Tiesler, Director
Division of Solid Waste Management

Date of delivery shown by returned receipt October 3, 1984

EC/bec/SWM-H-11

Potential Hazardous Waste Site

PRELIMINARY ASSESSMENT

KEN HARRIS OIL-CARTER'S CREEK PIKE FACILITY

TND 981015878

COLUMBIA, MAURY COUNTY, TENNESSEE

PRELIMINARY ASSESSMENT

KEN HARRIS OIL FACILITY

The Ken Harris Oil Facilty, located between Carters Creek Pike and Petty Lane outside Columbia, Tennessee, was used as a temporary storage and treatment lagoon for waste oil streams during the approximate period 1979-1980. Mr. Ken Harris at this time apparently ran into negotiation problems with the City of Columbia concerning his lease of the old sewage treatment plant on Santa Fe Pike, which he used for waste oil treatment. As a result, Mr. Harris made his own arrangements to store and treat these oily wastes by excavating a pond (measuring 160' x 65' x 4' deep) behind his residence. This impoundment was dug into a clayey soil with diversion ditches surrounding it to prevent surface runoff. The oily wastes were hauled to the pond, treated, and the remaining wastewater was then transported to the City of Columbia WWTP. The resultant sludge and skimmed oil were sent to a refinery for oil recovery. The total volume of oily waste that was treated, judging from the dimensions of the holding pond, was estimated to be 269,000 gallons. After this short operation was concluded, the pond was subsequently filled in. This waste storage and treatment activity was alledgely performed under the approval of the Division of Water Quality Control, but without any plans or specifications.

In view of the above summary of Mr. Harris' operation, there are several facts which are unclear concerning the proper practice of this storage and treatment facility. The origin of the oily waste streams is unknown, and the presence of hazardous constitutents within these waste oils is a possibility, particularly heavy metals and organics. The nature of the treatment process, including equipment used, amount of waste treated, and chemicals added to facilitate separation of oily

wastes and water, is also unknown. The facility was used on a one time basis only and the soundness of a temporary operation is questionable. Additional concerns include what oil reclaimer was used and whether it accepted both sludge and skimmed oil, and what analyses, if any, were performed on the treated wastewater prior to its transfer to the city WWTP.

The impoundment of potentially hazardous oily wastes in an unlined pond may have resulted in both soil and groundwater contamination. There may have also been spills and/or leaks during the transport, storage, and treatment of these waste oil streams.

The area in which the site is located is underlain by brown soils 4-10 feet deep, primarily of a phosphatic silty clay loam weathered from the Bigby limestone facies of the Bigby-Cannon Limestone. These soils drain moderately well and it is possible that such a geologic setting may be conducive to off-site migration of wastes, with potential contamination of domestic water wells, if they so exist.

Although the facility was allegedly approved by the State of Tennessee (Division of Water Quality Control) such an operation seems to be questionable indeed, with pertinent information either lacking or unclear.

Furthermore, due to the lack of documentation concerning post-closure sampling of the facility, it is recommended that a Low Priority be assessed to this site, with sampling to be performed by the Site Investigation Program at a later date.

REFERENCES

1. Superfund 634 Master List/Public Comment, Becky Harris, 8/8/83.

2. Correspondence with Barry Sulken, Division of Water Pollution Control, Enforcement Section.

3. U.S. Geological Survey, Topographic Map, Godwin Quadrangle, 57-NE, 1965.

4. Soil Survey, Maury County, Tennessee, U.S.D.A., Soil Conservation Service, October 1959.

5. Oil Service Company file, Division of Water Quality, Nashville office.

6. Geologic Map, Godwin Quadrangle, Tennessee Department of Conservation, H.B. Burwell, 1964.

WH/bec/3012 Program

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 981015878

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Ken Harris Oil Facility	Carter's Creek Pike				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Columbia	TN	38401	Maury	119	06
09 COORDINATES LATITUDE	**LONGITUDE**				
35 44 38.5	087 00 14.8				

10 DIRECTIONS TO SITE (Starting from nearest public road)

From Columbia, take Hwy.31 north toward Spring Hill. Approximately 71/2 miles from town get on Carter's Creek Rd. at Neapolis (going west). Another 2 miles, (passing through community of Carter's Creek turn left onto Petty Lane, go app. 1/2, and at a right angle turn in road, proceed to Mr. Harris's house.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)			
Ken Harris	Rte. 6/Mooresville Pike			
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 TELEPHONE NUMBER**	
Columbia	TN	38401	(615) 381-3132	
07 OPERATOR (If known and different from owner)	**08 STREET** (Business, mailing, residential)			
Oil Services Co.	202 Hill Street			
09 CITY	**10 STATE**	**11 ZIP CODE**	**12 TELEPHONE NUMBER**	
Columbia	TN	38401	(615) 381-4999	

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☒ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☐ YES DATE ___/___/___ (MONTH DAY YEAR)
☒ NO

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)	03 YEARS OF OPERATION		
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN	App. 1979-80 (BEGINNING YEAR)	1979-80 (ENDING YEAR)	☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Oil and oil sludges (oily wastes)
Possible other unknown contaminant (i.e., PCB's, phenols)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Oily wastes were temporarily impounded in a surface pond. Contamination of soil could have resulted, as well as possible groundwater pollution.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)			03 TELEPHONE NUMBER
Barry Sulken	Division of Water Pollution Control			(615) 741-7883
04 PERSON RESPONSIBLE FOR ASSESSMENT	**05 AGENCY**	**06 ORGANIZATION**	**07 TELEPHONE NUMBER**	**08 DATE**
Walker F. Howell	TDH&E	DSWM	(615) 741-6287	6/17/85 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 981015878

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — [X] POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Oils and oily sludges (oily wastes) were placed in a surface impoundment for temporary storage and treatment. Downward migration of these wastes may have resulted in contamination of subsurface waters.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — [X] POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

Surface impoundment of wastes in a pond measuring 160'x65'x4' (depth) could have contaminated ambient soils.

01 [X] G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — [X] POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Off-site migration through groundwater paths could result in contamination of domestic water wells, if they so exist.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A


Ken Harris Oil Facility
Carters Creek Pike
Godwin Quadrangle 57 NE
Oil Service Co.
Storage
Lagoon
STRIP MINES
Laura Lake
STRIP MINE
Strip mine
BM 60-53-41
746
BM 30 SH
698
ALEXANDER CEM
BM 60-53-47
704
Swimming pool
McKee Cem
Terrell Cem
Beech Grove Church
Strip mines
Carters
Thomas
Branch
KLEBURNE ROAD
BM LHT 1580
645
Black Cem
BM LHT 1579
640
Terrell
CARTERS
CREEK
ROAD
Campbell Cem
Mile 5
NASHVILLE
LOUISVILLE
Creek
Branch
Lasting Hope Cem
BM LHT 1578
637
FOREMAN
PRIVATE
Haynes Haven Landing Strip (private)
Quarry Lake
Carters Creek
LAKE
ANDREW
Roadside park
Park
725
CARTERS
CREEK
ROAD
Cem
Terrell Br
Ingram Lake
Neapolis

August 29, 1979

Mr. Frank Harris
Sawmill Pike
Columbia, Tennessee 38401

Dear Mr. Harris

Joe Walkup of the Division of Solid Waste Management, made an inspection of your property, August 24, 1979, where an illegal chemical waste dump had been located, and found that all chemical wastes had been removed and properly disposed of and all household garbage and demolition had been buried on-site.

This property is more specifically described as being a plot of approximately 33 acres, located in the Ashworth Community of Maury County, six miles south of Columbia, two miles north of Mt. Pleasant, and 1/4 mile northwest of Highway 43 South, on what is thought to be Old Zion Road.

The cleanup of this property is to the satisfaction of the Division of Solid Waste Management and no further action will be taken on the basis of this incident. You are warned, however, that steps must be taken to prevent either chemical wastes or solid wastes of both a household and/or a demolition type being disposed of on this site again unless you choose to operate a registered landfill as per the provisions of the Regulations Governing Solid Waste Processing and Disposal in Tennessee.

Should you have questions concerning this letter, or if we can be of assistance in the future, please do not hesitate to contact this office.

Sincerely,

Bobby W. Morrison
Division of Solid Waste Management

BWM/ah 8/11

cc: Maury County Health Department
South Central Regional Health Office
Kitty Talmi, EPA
Mr. Ken Harris
Mr. John Fitzgerald, OGC

August 31, 1979

Mr. Ken Harris
Oil Service Company
Route #3
Columbia, Tennessee 38401

Dear Mr. Harris:

Joe Walkup, Division of Solid Waste Management, made an inspection August 24, 1979, of the Frank Harris property, where you had disposed of chemical wastes illegally. He found that all wastes had been removed and properly disposed of.

The property mentioned above is specifically located in the Ashworth Community of Maury County, six miles south of Columbia, two miles north of Mt. Pleasant, and 1/4 mile northwest of Highway 43 South, on what is thought to be Old Zion Road.

The cleanup and proper disposal of chemical wastes from this property is to the satisfaction of the Division of Solid Waste Management. We have received verification of the disposal of the waste materials from operators of facilities suited for this type disposal. The Division will take no further action on the basis of this incident.

This letter will serve as a warning that should any future illegal disposal of chemical wastes by you occur, we will not hesitate to resort to all legal remedies available to the Division to obtain corrections and punitive penalties against your company. We would urge that in the future you contract for disposal of only those materials that you can dispose of in a legal processing or disposal facility.

Should you have questions concerning this letter, or if we can be of assistance in the future, please do not hesitate to contact this office.

Sincerely,

Bobby W. Morrison
Division of Solid Waste Management

BWM/ah 8/14

cc: Maury County Health Department
South Central Regional Health Office
Kitty Talmi, EPA
Mr. Frank Harris
Mr. John Fitzgerald, OGC

State of Tennessee
Department of Health and Environment
Division of Solid Waste Management

Hazardous Waste Management Program
4th Floor, Customs House
701 Broadway
Nashville, Tennessee 37219-5403
(615) 741-3424

EMERGENCY PERMIT

Permittee: OSCO, Incorporated
Emergency Installation Identification Number: TND 08 955 8019
Permit Number: TND 08 955 8019

Pursuant to the Tennessee Hazardous Waste Management Act, as amended (Tennessee Code Annotated 68-46-101 et seq.), and regulations promulgated thereunder by the Tennessee Department of Health and Environment (THDE) and the Tennessee Solid Waste Disposal Control Board titled the "Rules Governing Hazardous Waste Management in Tennessee" Chapter 1200-1-11, an emergency permit is issued to OSCO, Incorporated (hereinafter called the Permittee), to operate as an emergency hazardous waste container storage facility, for the management of hazardous waste, at 202 Hill Street in Columbia, Tennessee.

Under this emergency permit, OSCO, Incorporated is authorized to temporarily store hazardous waste discovered at the McCord School Building in Lewisburg, Tennessee. The amount the Permittee is authorized to store is 8,115 gallons in Department of Transportation (DOT) approved containers. This permit does not authorize the Permittee to increase or exceed the design capacity covered by the effective permit. This permit shall be terminated the date the wastes are shipped off-site or on August 3, 1987, whichever is sooner.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions contained herein (including those in any referenced attachments) and the applicable regulations contained in Rules 1200-1-11-.01 through .09, as specified in the permit. Applicable regulations are those which are in effect on the date of issuance of the permit.

Continuation, Transfer, Modification, Revocation and Reissuance, and Termination of this permit must comply with and conform to Rule 1200-1-11-.07(9).

This permit is based on the assumption that the information submitted is accurate and that the facility will be operated as specified. The Permittee's failure to disclose fully all relevant facts, or the Permittee's misrepresentation of any relevant facts at any time may be grounds for termination of this permit and potential enforcement action. The Commissioner may modify this permit if information is received which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and justifies the application of different permit conditions at the time of issuance. The Permittee must inform the Tennessee Department of Health and Environment, Division of Solid Waste Management, of any deviation from or changes in the information in the application which would affect the Permittee's ability to comply with the applicable regulations or permit conditions.

This permit is effective as of May 5, 1987, and shall remain in effect until August 3, 1987, unless revoked and reissued, or terminated, or continued.

Tom Tiesler, Director
Division of Solid Waste Management
Tennessee Department of Health and Environment

SPECIFIC CONDITIONS

FOR

STORAGE IN CONTAINERS

A. WASTE IDENTIFICATION

The Permittee may store at the facility the following wastes in DOT-approved containers, subject to the terms of this emergency permit:

8,115 gallons, in 150 55-Gallon drums, in 2 secondary containment tractor trailers from the McCord School in Lewisburg, Tennessee. The McCord School's Emergency Identification Number is TN TMP 000 1245.

The drums consist of the following:

No. of Drums	EPA Waste Code	U.S. DOT Description
Van 21951		
35	F007	Waste Cyanide Solution (Poison B, UN1935)
13	F005	Waste Flammable Liquid (UN1993)
4	F005	Waste Flammable Solid (UN1325)
11	F008	Waste Cyanide Mixture (Dry Poison B, UN1588)
Van 529		
43	D002/D008	Waste Corrosive Liquid (UN1760)
6	D002/D007	Waste Corrosive Liquid (UN1760)
30	D002/(D007, F007, D005)	Waste Corrosive Liquid (UN1760)
4	-	Nonhazardous Liquids

B. CONDITION OF CONTAINERS

If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects) or if it begins to leak, the Permittee shall transfer the hazardous waste from such container to a

container that is in good condition or otherwise manage the waste in compliance with the conditions of this emergency permit as required by Rule 1200-1-11-.06(9)(b).

C. COMPATIBILITY OF WASTE WITH CONTAINERS

The Permittee shall assure that the ability of the container to contain the waste is not impaired as required by Rule 1200-1-11-.06(9)(c).

D. MANAGEMENT OF CONTAINERS

The Permittee shall assure that containers holding hazardous waste are always closed during storage, except when necessary to add or remove waste, and assure that a container holding hazardous waste is not to be opened, handled or stored in a manner which may rupture the container or cause it to leak as required by Rule 1200-1-11-.06(9)(d).

E. CONTAINMENT

The Permittee shall maintain the containment system in accordance with the requirements of Rule 1200-1-11-.06(9)(f). Any spill in the drum storage area or loading dock shall be contained and recovered. All spilled or leaked waste and accumulated precipitation must be removed from the sump or collection area or spill separator in as timely manner as is necessary to prevent loss from the secondary containment system.

F. SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE

The Permittee shall not locate containers holding ignitable or reactive waste within 15 meters (50 feet) of the facility's property line in accordance with Rule 1200-1-11-.06(9)(g).

G. SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES

The Permittee shall handle incompatible wastes or incompatible waste and materials in accordance with Rule 1200-1-11-.06(9)(h). The Permittee shall specifically:

1. Prohibit the placement of incompatible wastes, or incompatible wastes and materials into the same container.

2. Prohibit the placement of hazardous waste in an unwashed container that previously held an incompatible waste or material.

3. Separate containers holding a hazardous waste that is incompatible with any waste or other materials as required by Rule 1200-1-11-.06(9)(h)3.

Reference No. 9

LEVEL

NOTEBOOK NO. 311

F4-770

Oil Services Inc

TAD # 8803-29

Project Manager: Phillip Henderson

a product of

J. L. DARLING CORPORATION

TACOMA, WASHINGTON 98421 U.S.A.

4

LOGBOOK REQUIREMENTS
REVISED - JANUARY 6, 1988

NOTE: ALL LANGUAGE SHOULD BE FACTUAL AND OBJECTIVE

1. Record on front cover of the Logbook:

   TDD No., Site Name, Site Location, Project Manager

2. All entries are made using ink.

3. Provide statement referencing Equipment Location Log.

4. Statement of Work Plan, Study Plan, and Safety Plan discussion and distribution to field team with team member signatures.

5. Sign and date each page. Project Manager is to review and sign off on each logbook daily.

6. A single line is drawn through error. Each correction is dated/initialed.

7. Report weather conditions. Provide general site description and remarks.

8. Document all changes from project planning documents.

9. Provide a site sketch with sample locations.

10. Document all calibration and pre-operational checks of equipment.

11. Provide reference to Sampling Field Sheets for detailed sampling informaiton.

12. Maintain photo log by completing the stamped information at the end of the logbook.

13. If no site representative is on hand to accept the receipt for samples an entry to that effect must be placed in the logbook.

- Confirm the location of the site on topographic map(s).
- How accessible is the site to non-employees?
- How accessible is the waste itself?
- Is there visible damage in surrounding areas - i.e., to flora, fauna, or off-site property?
- Are there persons residing or going to school onsite?
- Determine distance and direction from the site to the nearest residence, school, or day-care facility.
- Make an overview of population density within a one-mile radius of the site.

Groundwater Route

- Distance to the nearest well?
- Are there wells close enough to the site for future sampling (SSI phase)?
- Are there public supplies with wells in the 4-mile radius?
  - Obtain depths, locations, distribution areas, populations served.
  - Obtain well logs, if available.
- Locate private wells within 4 miles and determine depths.
- Are there persons drinking groundwater with no alternate unthreatened source readily available?
- Is groundwater used for irrigation?
  - Determine type of crops and estimate of acreage.

Surface Water Route

- Is there surface water onsite?
- Is there visible evidence of leachate or direct surface water discharge?
- Make a review of potential and actual surface water migration pathways from the site, overland and in-water. (Confirm " lay of the land" shown on topo.)
- Is surface water used for drinking, recreation, or irrigation?
- Determine location of intake (s) if drinking or irrigation use exists.
- Distance limit in flowing water is 15 stream miles from probable point of entry into surface water (2 mile overland limit).
- Distance limit for static water intakes is also 15 miles from probable point of entry.
- Are there wetlands in the vicinity of the site?
- Are there drainage areas upgradient of the site?

* See additional guidance for evaluation of the site based on HRS2 criteria.

All entries in this logbook will be by Phillip Henderson Bob Tolford BT

Each page will be signed and dated and all corrections will be properly initialed

Signature Phillip Henderson
Initials PH

Signature
Initials

All notes and observations obtained during this Site Recon will be included in this logbook.

Detailed information on wells will be recorded on well inventory forms

The workplan for this study has been read and is understood.

Phillip Henderson Phillip Henderson
4/5/88 Bob Tolford Bob Tolford

0180

Conducting Recon of Oil Services.

Site is located in depression. Bordered on East side (across Rd) by houses. South side by house + trailer homes. Nearest residence, a trailer is located apprx 35ft from SW corner of Oil Services fence

Area on West side is brushy. Small intermit. creek runs immediately behind site to West.

Area west of site Brushy trees + some abandoned buildings to top of hill where Road ends

Phillip Henderson 4/5/88

000005

At intersection will Hillcrest creek ~10ft wide with Limestone outcrop visible in creek bed. Creek forks behind shop building. Back of Building about 12 feet from ~~Pit~~ creek. Fence separates facility from creekland small stone wall protects building from flooding. Believe creek may be perennial. Back of shop bldg only 2-3 ft higher than creek elev + facility slope toward SW (creek). About 25 ft of relief from SE corner of site to creek.

North of Creek 30ft high Steep
000004 Bank which

Phillip Henderson 4/5/88

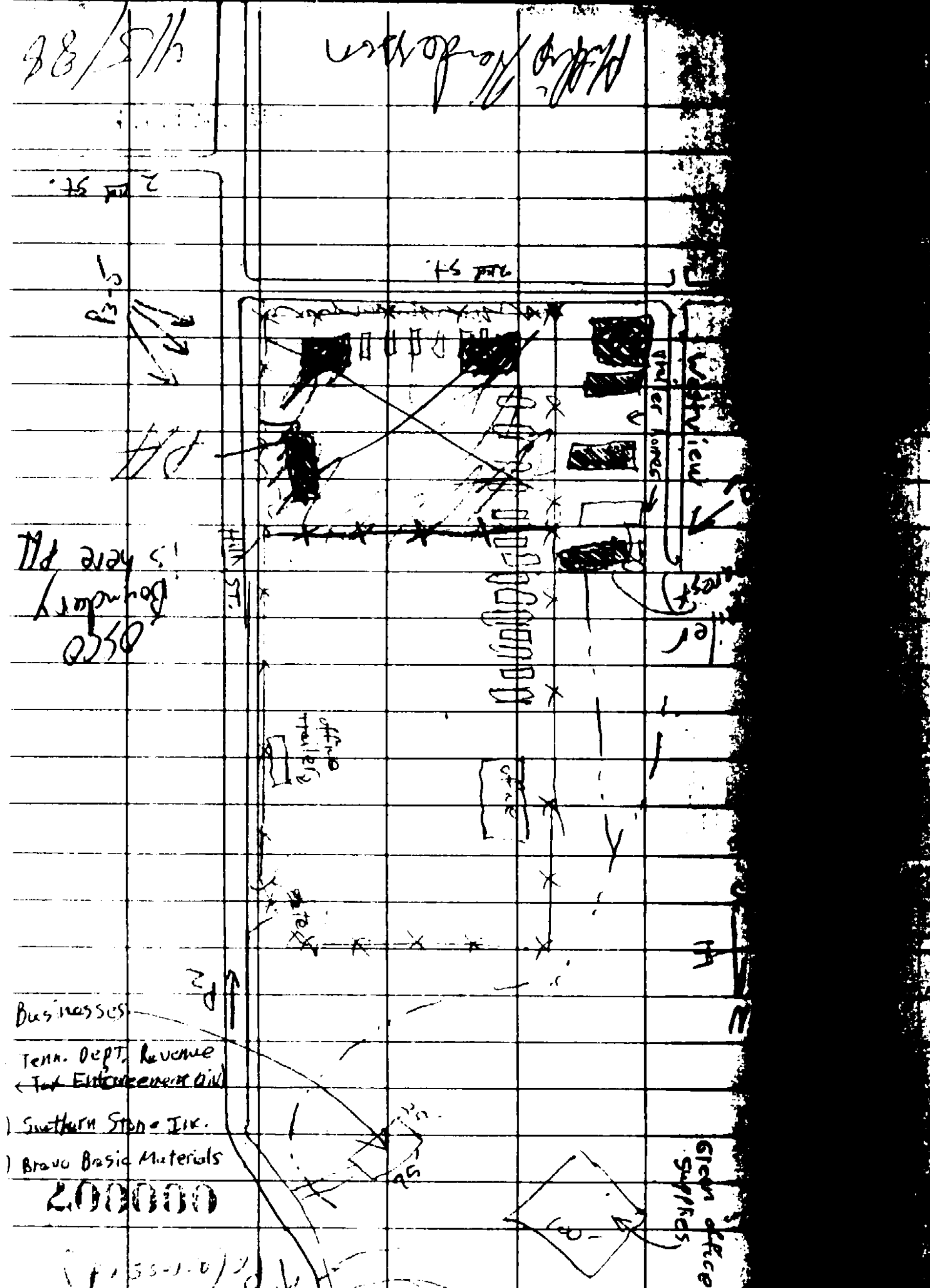
has some sort of fence off parking / industrial area on level zone above bank. (Name on mailbox is Greene office supplies. Refer to site sketch for more detail).

* No visible signs of dumping into creek behind facility. A couple empty 55 gal drums but appear to have come from N bank of creek.

City Map has location of schools, parks marked.

Phillip Henderson 4/5/88

0000006


4/5/88
Westview
trailer homes
2nd St.
Hill St.
office trailer
Is here PM
Boundary
Businesses
Tenn. Dept. Revenue
Tax Enforcement Div
Southern Stone Inc.
Bravo Basic Materials
Glen office Supplies

Wed 4/6/88 0815
Back to Oil Services
Co. Reached South Prop
Boundary for Site Sketch
8
Surveyed surrounding neat
neighborhoods. In immed
vicinity of Site al
appear to be on Cit
Water. Will confirm
later in am after
visiting Columbia
Water / Plant

Accross Rd (Cambell St)
from OSCO Transport
Co is their plant
where they treat was
35 by 15 ft floatati
pond of some sort
observed. White foam
blowing off top int
surrounding area

000008

Phillip Henderson 4/6/88

000009

55 gal drums (Photo 6)
stored on ground

Small stained soil
area observed adjacent
floatation Pond.

all drainage from station
plant would flow towards
Duck River located
~ 300 yds downslope.

Phillip Henderson 4/6/88

Wastewater Plant - Shelly Cooper
Little Bird?
W on ... Camp[?] (RT)
1st Rd to left

OSCO operates in old Columbia Water Treatment Plant
Steve Bloom Presid OSCO

Mr Chap[?] Al Chaffin of Columbia Chamber of Commerce mentioned that OSCO did have one spill. Above info from Mr. Chapin

Went to Service Center for Columbia Power & water. Office manager drew in water ... lines. Stated that to his Knowledge there were very few (if any) private wells.

000010

Phillip ... 4/6/88

000011

within Columbia City Limits.

Mr Chaffin mentioned that the river is used lightly for fishing and recreation as well as water + sewer

Mike Anderson Water Treatment Plant, Accept Water from OSCO

Charles Sterie - ... former ... for OSCO ... 35.0 (Home)
According to Mr Anderson ... OSCO ... complaints ... Company about their Health & Safety procedure

Phillip ... 4/6/88

There have been
numerous complaints
from citizens about
odor problems.

Wastewater treatment
plant accepts all
water OSCO discharges
and to this (Andersons)
knowledge they do
not make any discharge
to the Duck River.

Their office has
responded several
times to citizen
complaints that OSCO
Treadport Trucking
(Site) has discharged
substances into creek.
They have sampled
the following complaints
but have never

000012

Phillip Henderson 4/6/88

detected anything.
Several times they
have not accepted
water from OSCO
treatment because
it exceeded their
standards for phenols
& surfacants.

000013

Phillip Henderson 4/6/88

000014

WILLIAM V. CHAFIN, JR.

EXECUTIVE DIRECTOR
MAURY COUNTY
CHAMBER OF COMMERCE

P.O. BOX 1076
COLUMBIA, TENN. 38402
Phone: 615-388-2155

MICHAEL G. ANDERSON
Chief Operator/Industrial Coordinator
Wastewater Treatment Plant

CITY of COLUMBIA
RT. 4 • BOX 23-B • COLUMBIA, TN 38401
PLANT (615) 388-2419 • 388-2386

000015

1

Dead end rd of 2nd
near SW border of site
Trailer home +
Stream bordering site

2

NW corner of site
along trail
ASB Company
sign

3, 4, 5

Hillcrest, Panoramic
of site
Easily from S
to North taken
from east side

6

0540 Treatment Facility

55 gallon drums on ground at facility

Reference No. 10

EPA-600/2-87-035
April 1987

DRASTIC: A Standardized System for Evaluating Ground Water Pollution Potential Using Hydrogeologic Settings

by

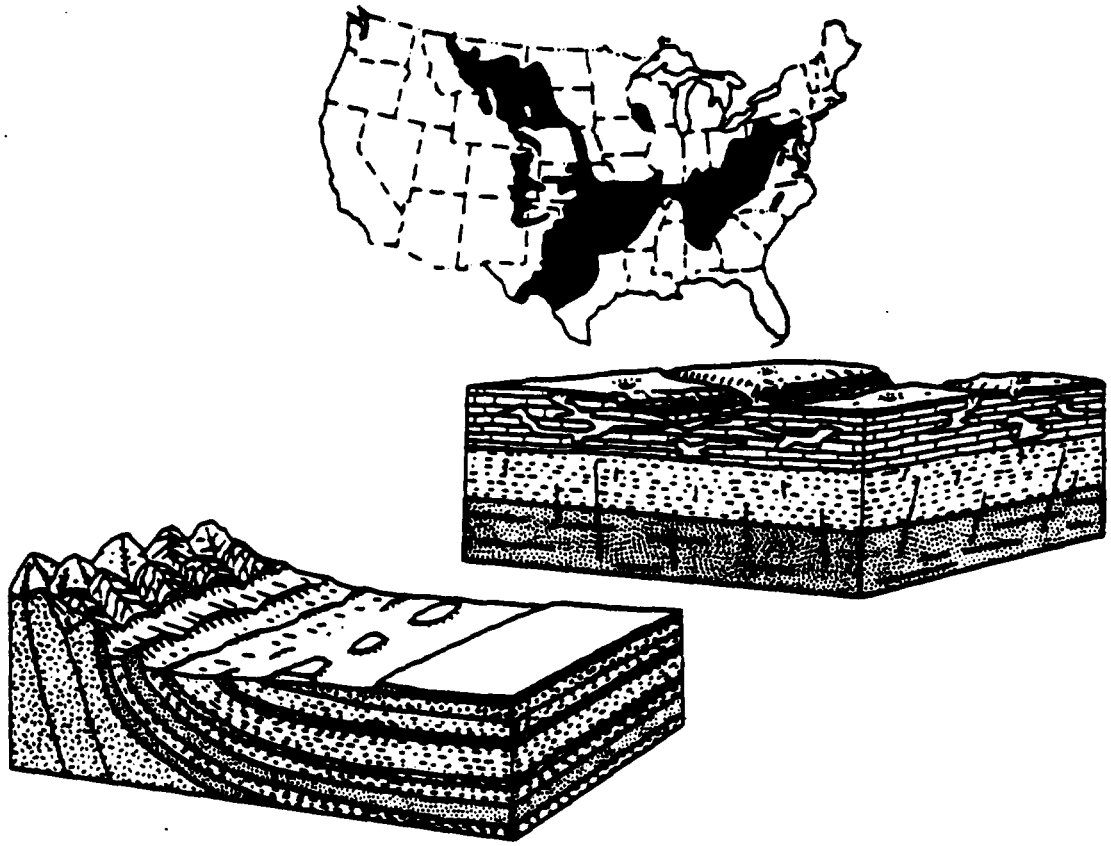
Linda Aller
Truman Bennett
Jay H. Lehr
Rebecca J. Petty
and
Glen Hackett
National Water Well Association
Dublin, Ohio 43017

Cooperative Agreement CX-810715-01

Project Officer
Jerry Thornhill
Applications and Assistance Branch
Robert S. Kerr Environmental Research Laboratory
Ada, Oklahoma 74820

ROBERT S. KERR ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH AND DEVELOPMENT
U.S. ENVIRONMENTAL PROTECTION AGENCY
ADA, OKLAHOMA 74820

6. NONGLACIATED CENTRAL GROUND-WATER REGION



6A	Mountain Slopes
6B	Alluvial Mountain Valleys
6C	Mountain Flanks
6Da	Alternating Sandstone, Limestone and Shale - Thin Soil
6Db	Alternating Sandstone, Limestone and Shale - Deep Regolith
6E	Solution Limestone
6Fa	River Alluvium With Overbank Deposits
6Fb	River Alluvium Without Overbank Deposits
6G	Braided River Deposits
6H	Triassic Basins
6I	Swamp/Marsh
6J	Metamorphic/Igneous Domes and Fault Blocks
6K	Unconsolidated and Semi-consolidated Aquifers

6. NONGLACIATED CENTRAL REGION

(Thin regolith over fractured sedimentary rocks)

The nonglaciated Central region is an area of about 1,737,000 km^2 extending from the Appalachian Mountains on the east to the Rocky Mountains on the west. The part of the region in eastern Colorado and northeastern New Mexico is separated from the remainder of the region by the High Plains region. The Nonglaciated Central region also includes the Triassic Basins in Virginia and North Carolina and the "driftless" area in Wisconsin, Minnesota, Iowa, and Illinois where glacial deposits, if present, are thin and of no hydrologic importance. The region is a topographically complex area that ranges from the Valley and Ridge section of the Appalachian Mountains on the east westward across the Great Plains to the foot of the Rocky Mountains. It includes, among other hilly and mountainous areas, the Ozark Plateaus in Missouri and Arkansas. Altitudes range from 150 m above sea level in central Tennessee and Kentucky to 1,500 m along the western boundary of the region.

The region is also geologically complex. Most of it is underlain by consolidated sedimentary rocks that range in age from Paleozoic to Tertiary and consist largely of sandstone, shale, carbonate rocks (limestone and dolomite), and conglomerate. A small area in Texas and western Oklahoma is underlain by gypsum. Throughout most of the region the rock layers are horizontal or gently dipping. Principal exceptions are the Valley and Ridge section of the Wichita and Arbuckle Mountains in Oklahoma, and the Ouachita Mountains in Oklahoma and Arkansas, in all of which the rocks have been folded and extensively faulted. Around the Black Hills and along the eastern side of the Rocky Mountains the rock layers have been bent up sharply toward the mountains and truncated by erosion. The Triassic Basins in Virginia and North Carolina are underlain by moderate to gently dipping beds of shale and sandstone that have been extensively faulted and invaded by narrow bodies of igneous rock. These basins were formed in Triassic time when major faults in the crystalline rocks of the Piedmont resulted in the formation of structural depressions up to several thousand meters deep and more than 25 km wide and 140 km long.

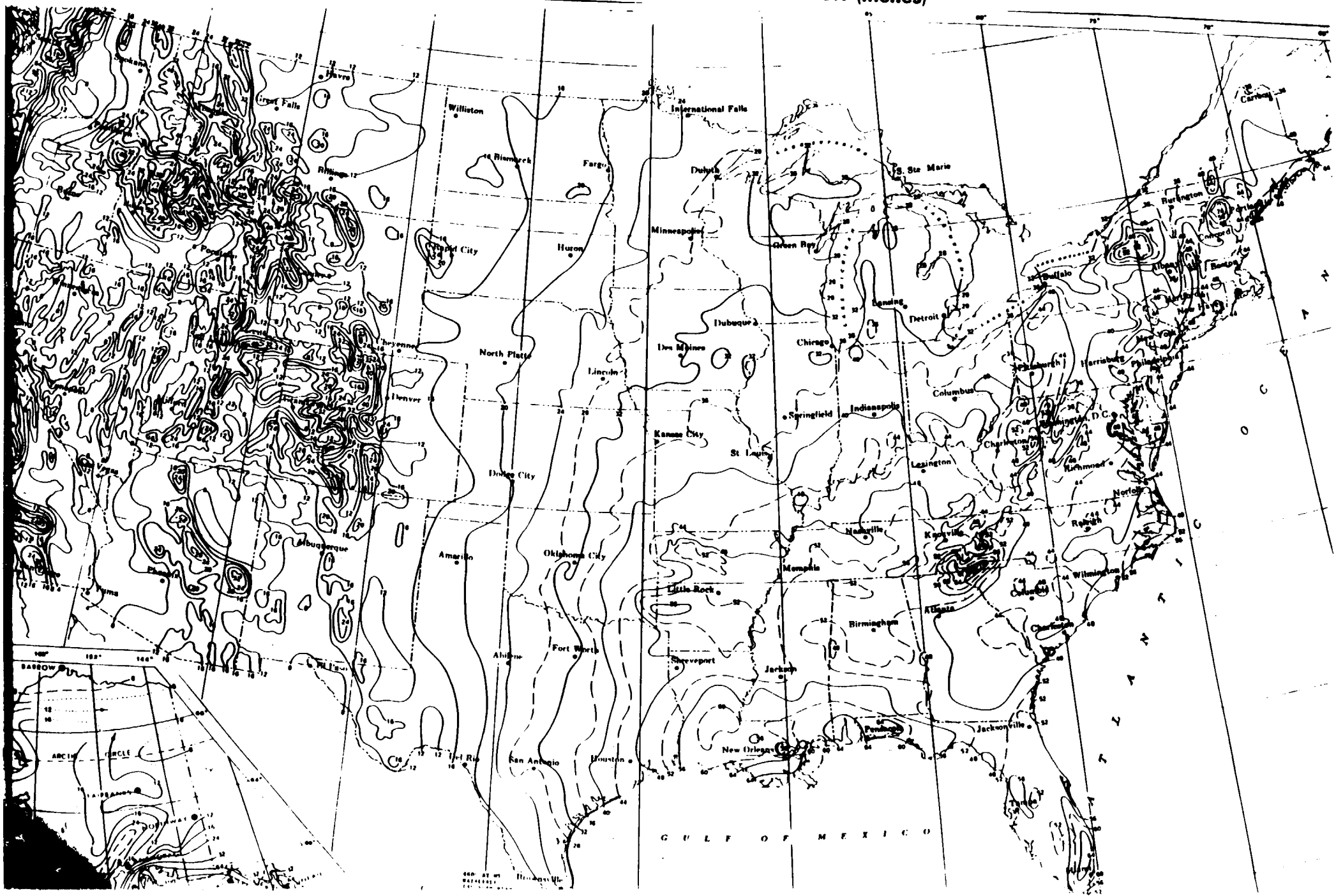
The land surface in most of the region is underlain by regolith formed by chemical and mechanical breakdown of the bedrock. In the western part of the Great Plains the residual soils are overlain by or intermixed with eolian (wind-laid) deposits. The thickness and composition of the regolith depend on the composition and structure of the parent rock and on the climate, land cover, and topography. In areas underlain by relatively pure limestone, the regolith consists mostly of clay and is generally only a few meters thick. Where the limestones contain chert and in areas underlain by shale and sandstone, the regolith is thicker, up to 30 m or more in some areas. The

Reference No. 11

CLIMATIC ATLAS OF THE UNITED STATES

ronmental Science Services Administration . Environmental

NORMAL ANNUAL TOTAL PRECIPITATION (Inches)



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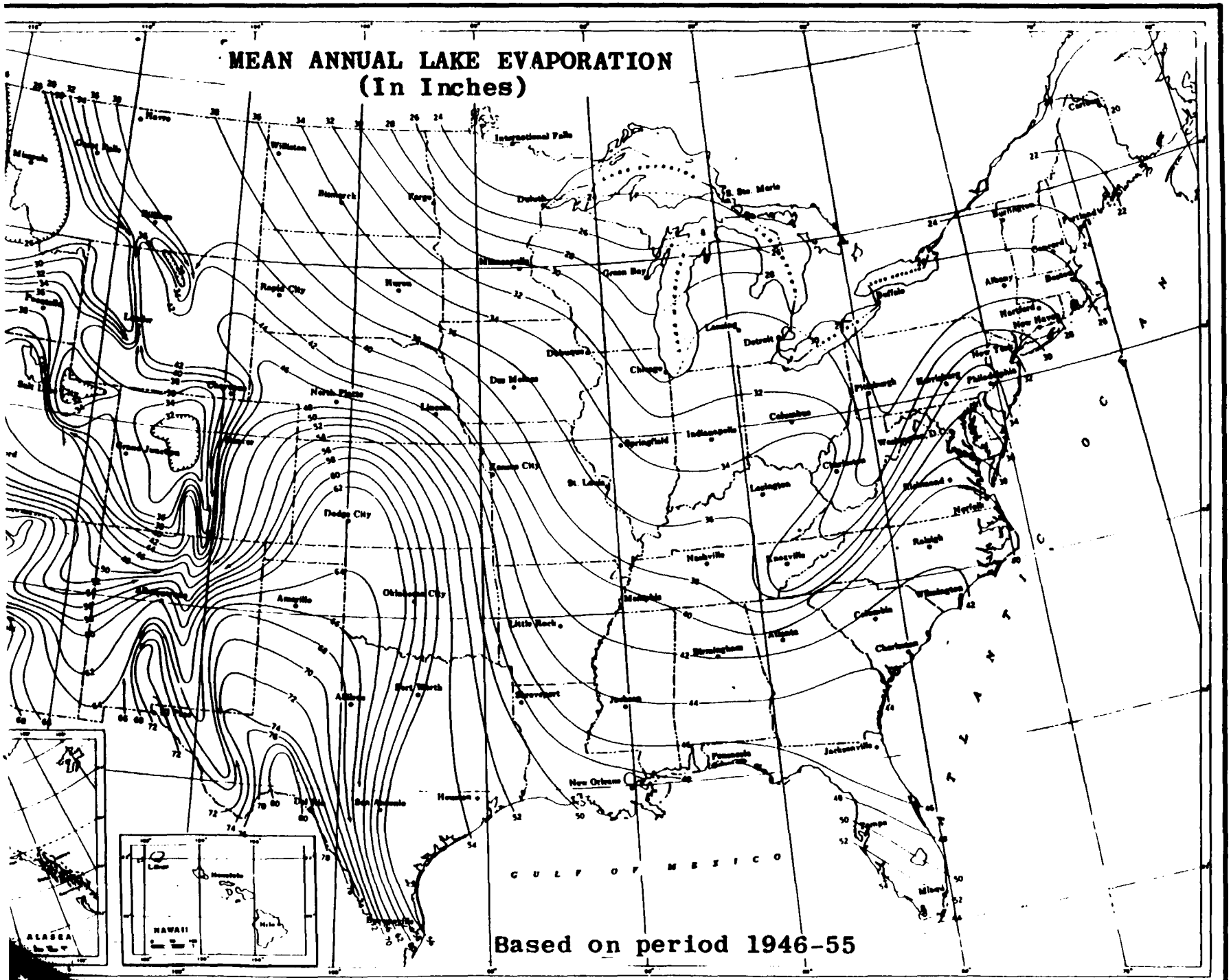
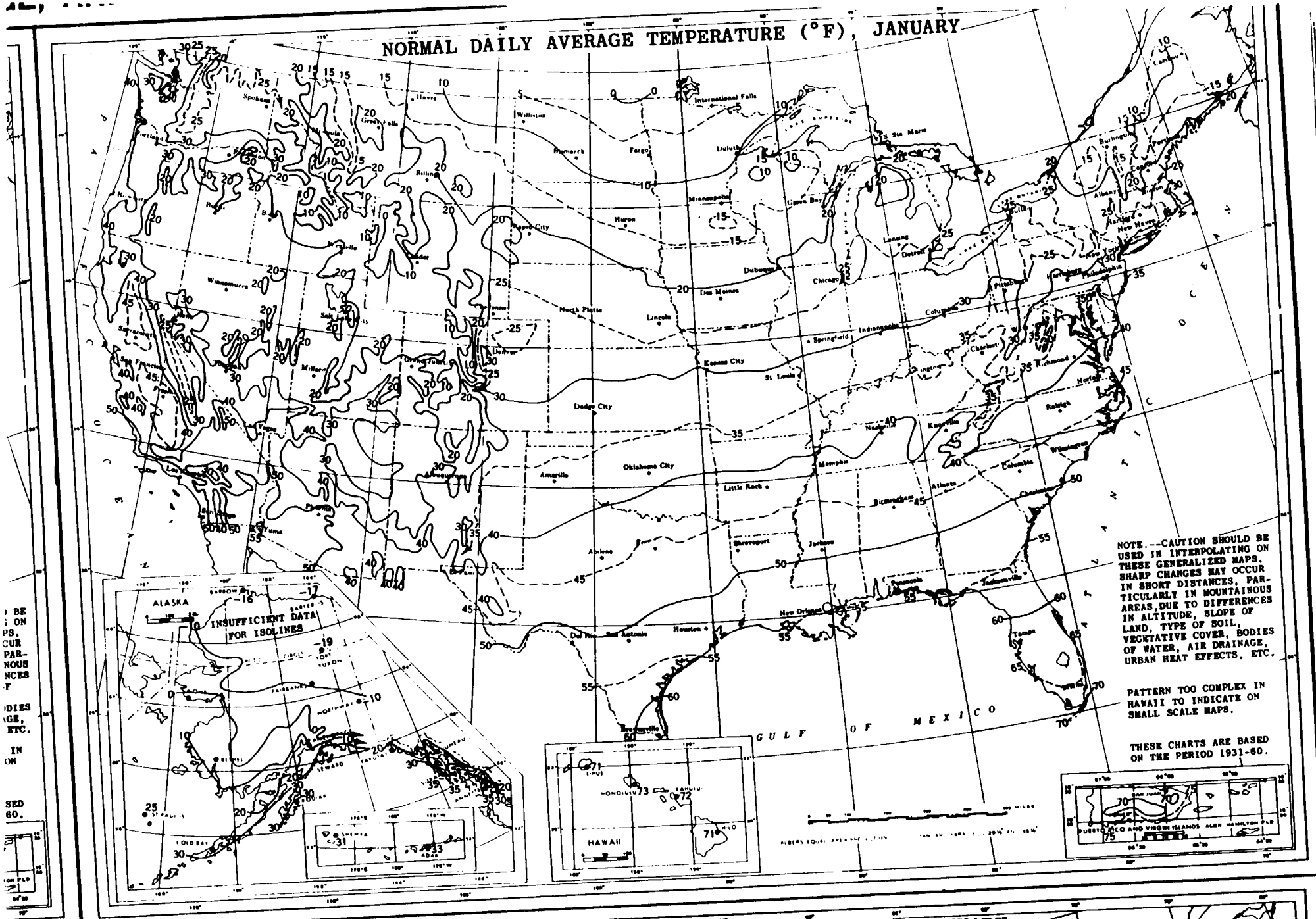
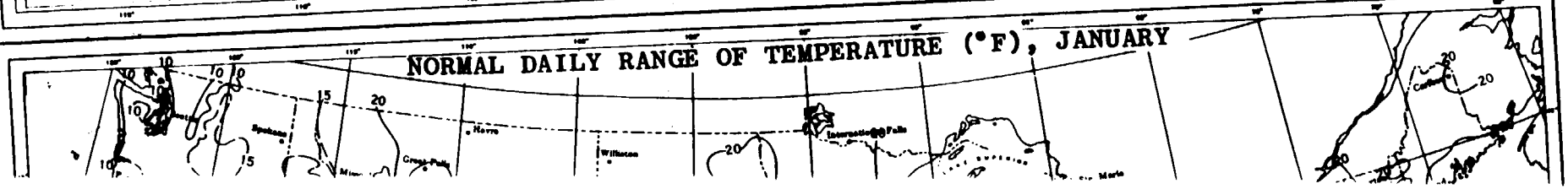
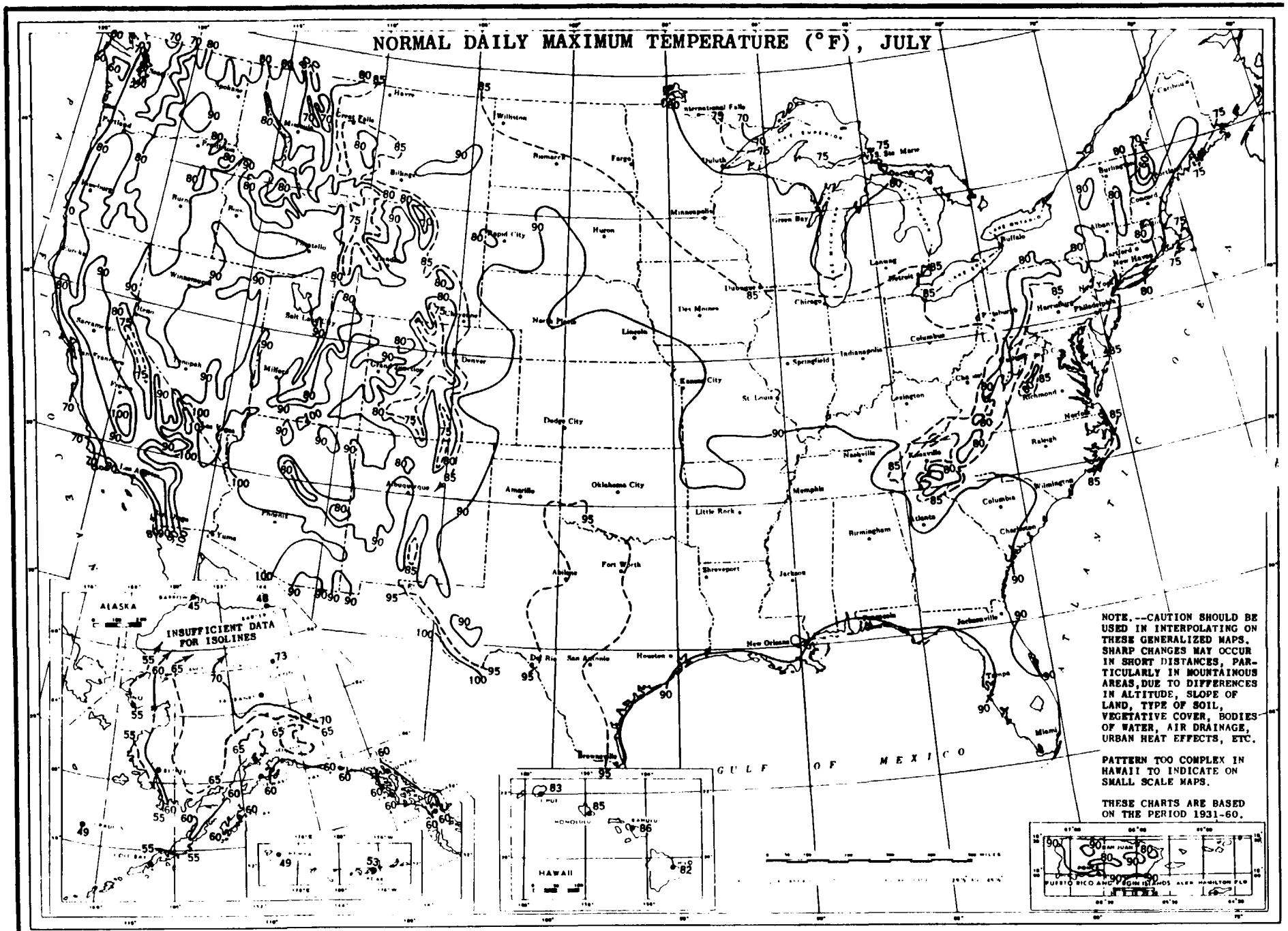

MEAN ANNUAL LAKE EVAPORATION
(In Inches)
Based on period 1946-55
GULF OF MEXICO
ALASKA
HAWAII

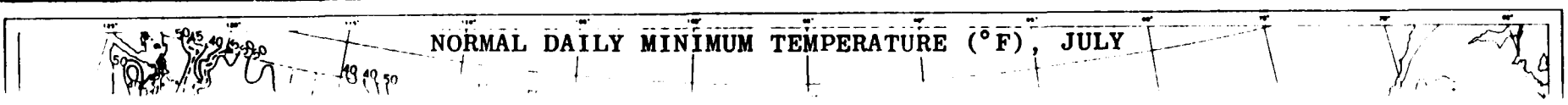
NORMAL DAILY AVERAGE TEMPERATURE (°F), JANUARY



NORMAL DAILY RANGE OF TEMPERATURE (°F), JANUARY




NORMAL DAILY MAXIMUM TEMPERATURE (°F), JULY
ALASKA
INSUFFICIENT DATA FOR ISOLINES
HAWAII
GULF OF MEXICO
NOTE.--CAUTION SHOULD BE USED IN INTERPOLATING ON THESE GENERALIZED MAPS. SHARP CHANGES MAY OCCUR IN SHORT DISTANCES, PARTICULARLY IN MOUNTAINOUS AREAS, DUE TO DIFFERENCES IN ALTITUDE, SLOPE OF LAND, TYPE OF SOIL, VEGETATIVE COVER, BODIES OF WATER, AIR DRAINAGE, URBAN HEAT EFFECTS, ETC.
PATTERN TOO COMPLEX IN HAWAII TO INDICATE ON SMALL SCALE MAPS.
THESE CHARTS ARE BASED ON THE PERIOD 1931-60.


NORMAL DAILY MINIMUM TEMPERATURE (°F), JULY

DEPARTMENT OF COMMERCE
[illegible] H. Hodges, Secretary

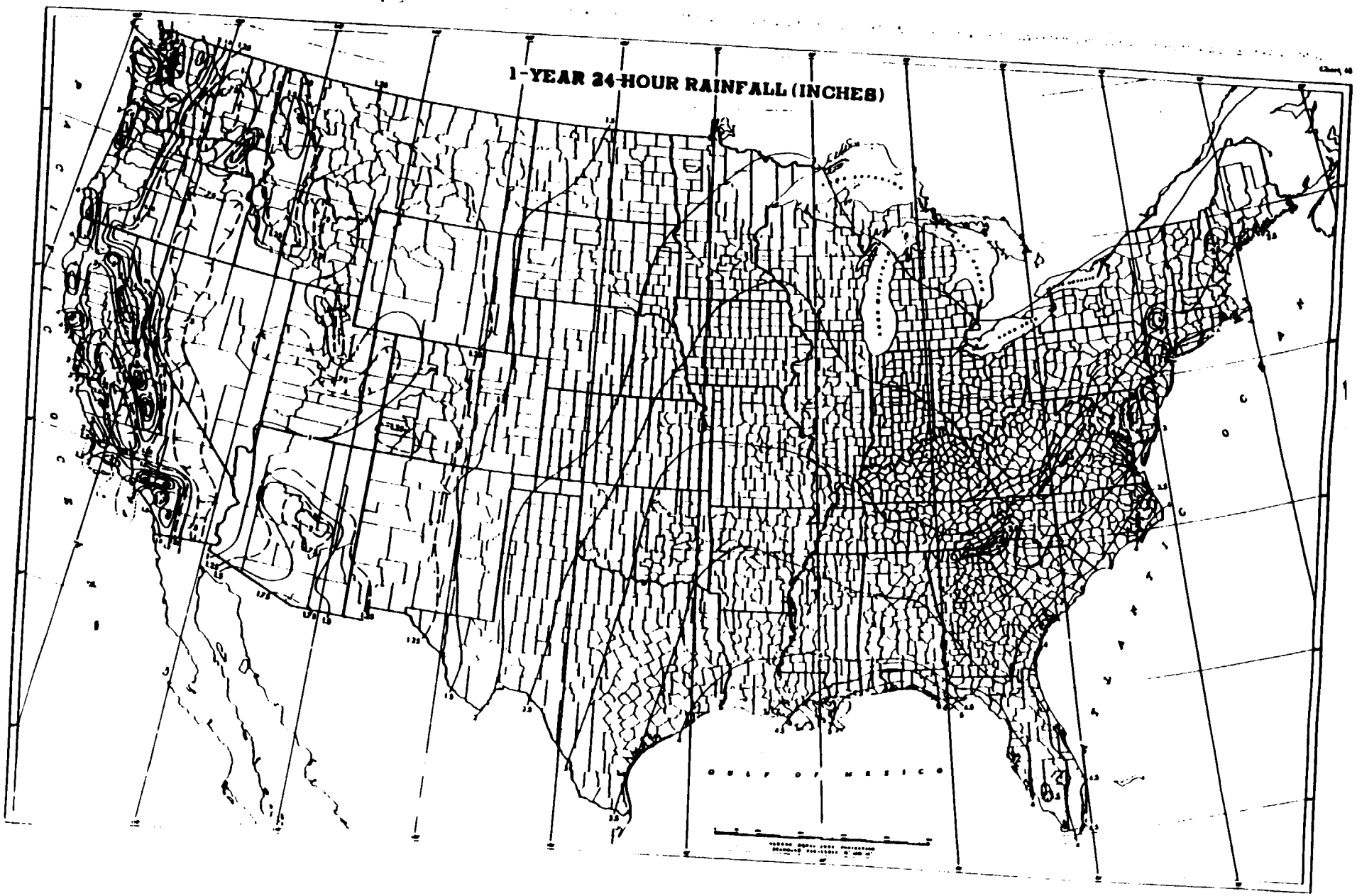
WEATHER BUREAU
F. W. Reichelderfer, Chief

TECHNICAL PAPER NO. 40

RAINFALL FREQUENCY ATLAS OF THE UNITED STATES

for Durations from 30 Minutes to 24 Hours and Return Periods from 1 to 100 Years

Prepared by
DAVID M. HERSHFIELD
Cooperative Studies Section, Hydrologic Services Division
for
Engineering Division, Soil Conservation Service
U.S. Department of Agriculture


1-YEAR 24-HOUR RAINFALL (INCHES)
GULF OF MEXICO

Reference No. 13

STATE OF TENNESSEE

DEPARTMENT OF CONSERVATION

DIVISION OF GEOLOGY

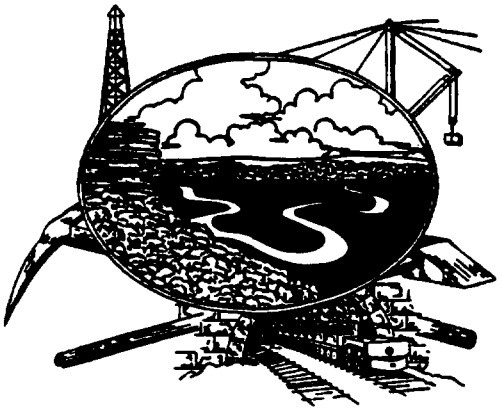
REPORT OF INVESTIGATIONS No. 4

GROUND WATER IN THE CENTRAL BASIN OF TENNESSEE

A Progress Report

By

ROY NEWCOME, JR.



Prepared in cooperation with the U. S. Geological Survey

NASHVILLE, TENNESSEE

1958

GEOLOGY

Structure of the Rocks

Physiographically, the Central Basin is the result of erosion of a low structural dome whose crest is in southern Rutherford County. The dome represents the southern end of the Cincinnati Arch, an elongated area of upwarped rocks extending northward through Central Kentucky into Ohio and Indiana. During the upwarping and doming the rocks at the crest of the dome were stretched, resulting in the formation of joints. The weakened carbonate rocks were readily subject to solution and erosion, with the result that a topographic basin now occupies the top of the structural dome.

Although jointing is a prominent feature of Central Basin rocks, there is little evidence of differential movement along the joints. The formations lie in the same relative positions in which they were deposited. Minor folding of the rocks is not unusual, but it is of a local nature only.

Rock Formations of the Central Basin

The rock formations of the Central Basin are almost entirely limestones of Ordovician age. They differ greatly in color, texture, and chemical purity. Erosion of the structural dome has resulted in the exposure of concentric rings of progressively younger rocks as distance from the center of the Central Basin increases. The formations dip away from the center at about 15 feet per mile.

The oldest rocks exposed are those of the Murfreesboro limestone, which consists of about 400 feet of fine-grained bluish-gray limestone. The upper 100 feet of the Murfreesboro has been removed at the locality of deepest erosion. The youngest rock exposed that is of hydrologic significance in the basin is the Catheys limestone. Outcrops of formations younger than the Catheys are restricted largely to the hills that remain as erosional remnants of the Highland Rim Plateau.

Between the Murfreesboro and Catheys limestones is approximately 500 feet of limestone of six formations, as represented in the accompanying columnar section. (See table 1.) C. W. Wilson, Jr., (1949) has described in detail the stratigraphy of Central Tennessee.

GROUND WATER

Occurrence

An evaluation of the water-yielding properties of the rock formations of the Central Basin should consider two important factors, depth and solubility of the rocks. Nearly all the ground water in the region is contained in cavities formed, or enlarged, by solution of the limestone. These cavities, termed "solution channels," had their origin, for the most part, in openings along joints and bedding planes, through which water was provided relatively easy access to the rocks below the land surface. With such a start, water containing carbonic and organic acids derived from the air or leached from the soil has formed by solution of the limestone a network of water-carrying subterranean channels which are common in limestone regions.

Solution of the rocks has not progressed everywhere at the same rate nor to the same extent. The composition of the rocks greatly affects the rate of solution. Generally, the purer limestones are more easily dissolved than rocks containing appreciable amounts of nearly insoluble silty and clayey material, especially those in which the insoluble material is concentrated in layers.

Solution proceeds more slowly as depth increases. Crevices, that are open and of appreciable size near the surface, become less pronounced with depth, owing both to the less severe stretching undergone by the deeper rocks at the time of uplift and to the weight of overlying rocks. In most places in the basin substantial solution has not progressed beyond a depth of 300 feet. Records of the depth or depths of occurrence of water in 650 wells, totaling 700 occurrences, show that 75 percent of the water-bearing openings occur at depths of less than 100 feet and 90 percent at depths of less than 300 feet.

Water-Yielding Properties of the Rocks

The results of this study indicate that the individual rock formations of the Central Basin differ in their ability to transmit and yield water. Information on these differences, together with information on the thickness of the rocks and the areal distribution of their outcrops and on the topography, forms the basis for a prediction of the ground-water prospects and the maximum feasible depth of drilling at any specific locality.

Many wells in the Central Basin have been drilled several hundred feet below the depth at which water could reasonably be expected.

TABLE 1.—STRATIGRAPHIC SECTION OF THE CENTRAL BASIN OF TENNESSSEE

System	Group	Formation	Approx. Thickness (feet)	Remarks
ORDOVICIAN	Richmond	Sequatchie, Fernvale and Mannie formations. (Orh)	0–75	Sequatchie: Greenish-gray mudstone. Fernvale: Coarse-grained varicolored limestone. Mannie: Varicolored shale.
	Maysville	Leipers limestone (Ol)	0–100	Dark-gray fine- to medium-grained limestone. Thin to medium bedded. Locally phosphatic.
	Nashville (Trenton)	Catheys limestone (Ocy)	50–200	Dark-blue fine- to coarse-grained limestone. Thin to medium bedded. Phosphatic in places.
		Bigby-Cannon limestone (Oby-Ocn)*	50–100	Bigby facies and Cannon facies intergrade laterally. Bigby: Blue medium-grained phosphatic limestone. Cannon: Gray fine- to medium-grained limestone. Light-gray dense limestone termed "Dove" occurs as lentils interbedded with Bigby and Cannon facies.
		Hermitage formation (Oh)	60–100	Dark-blue fine-grained argillaceous limestone. Lower part thinly laminated with shale partings.
	Stones River	Carters limestone (Oc)	65	Light-brown dense limestone. Contains thin bentonite beds. Thin bedded near top, massive below. Dolomitic in places.
		Lebanon limestone (Olb)	115	Bluish-gray fine-grained thin- to medium-bedded limestone with thin shale partings.
		Ridley limestone (Or)	105	Light-gray dense, massive limestone.
		Pierce limestone (Op)	25	Gray medium- to coarse-grained silty limestone.
		Murfreesboro limestone (Om)	420	Blue and brown fine-grained limestone.
		Wells Creek dolomite	0–75	Silty dolomite and dolomitic limestone. Usually green owing to presence of glauconite.

CAMBRIAN AND ORDOVICIAN		Knox dolomite (O-Ck)	5,000±	Gray and brown fine-grained to granular dolomite and dense white limestone. Chert common.

The classification of the Bigby-Cannon limestone in this report is in accord with recent published reports and usage by the Tennessee Division of Geology, but it does not coincide with the classification used by the U. S. Geological Survey.

Central Basin where the Murfreesboro is more deeply buried it yielded water to only 20 of 100 wells.

In the vicinity of Murfreesboro several industries make use of ground water in their processes. In that locality there are at least 12 wells that yield more than 100 gpm each from the Murfreesboro limestone. Most of this water is of good quality. Elsewhere in the Central Basin the Murfreesboro seldom yields water that is not highly mineralized. The formation is a poor source of water except in the areas where it crops out or is very near the land surface.

PIERCE LIMESTONE (Op)

The Pierce is a thin silty limestone overlying the Murfreesboro limestone. As it has a thickness of only 25 feet, its area of outcrop is very small, usually restricted to a thin border about the outcrops of the Murfreesboro. The rock contains 15 percent of insoluble material,* twice as much as the Murfreesboro. Most of the insoluble material is clay and shale occurring as thin partings.

The Pierce limestone is a very poor source of water. Records of 153 wells penetrating the formation show that only 9 obtained water from it.

The thinness of the formation and its high content of insoluble matter, together with its deeply buried position in most places, are probable reasons for its poor water-yielding properties. Water, when encountered in the Pierce limestone, is generally too highly mineralized to be potable.

RIDLEY LIMESTONE (Or)

Probably the most reliable water-bearing formation above the Knox dolomite is the Ridley limestone. The rocks of this formation crop out over a greater area than those of any of the other formations in the Central Basin. Large exposures of the Ridley occur in Rutherford, Bedford, Marshall, and Maury Counties. In those counties the formation is topographically expressed as extensive plains.

The Ridley limestone is a massively bedded formation about 100 feet thick. It contains the purest limestone in the Central Basin, the average content of insoluble material being only 5 percent. The large areas of exposure and the chemical purity of the rock afford favorable conditions for the development of solution channels.

Records are available for 240 wells penetrating the Ridley limestone. The formation yielded water to 113 of the wells. In 65 percent of the

*Percentages of insoluble material expressed in this report are based on a study of insoluble residues on file at the Tennessee Division of Geology, Nashville, Tenn

yielding wells, however, the quantity of water obtained from the Ridley is less than 5 gpm. Only 5 percent of the wells yield more than 20 gpm.

Water from the Ridley limestone is usually potable, although in one-third of the wells yielding water from the formation there is a detectable odor of hydrogen sulfide.

LEBANON LIMESTONE (Olb)

The Lebanon limestone is well exposed in the Central Basin. It is about 115 feet thick. In general, the Lebanon outcrops form a border around the large exposures of the Ridley limestone. In addition, there are many outliers of the Lebanon limestone within the outcrop areas of the Ridley. The Lebanon is usually distinguished by its thin-bedded flaggy appearance and by the abundant growth of cedar trees that it supports.

Although the content of insoluble material in the Lebanon averages only 5.5 percent, the material occurs in the form of very thin, closely spaced, shale partings. As a result, the formation has a thin-bedded appearance.

Records of 293 wells penetrating the Lebanon show that this formation yielded water to 107 of them, a somewhat lower average than that for the underlying Ridley limestone. This lower average probably is due to the resistance to solution provided by the shale partings. This is suggested by the fact that half the wells starting in the Ridley yield water from that formation, whereas only one-fifth of the wells starting in the Lebanon yield water from the Lebanon.

The quantity of water to be expected from wells in the Lebanon is about the same as that yielded by wells in the Ridley. About 60 percent of the wells yield less than 5 gpm and 5 percent yield more than 20 gpm.

Water from the Lebanon limestone is usually of good quality except that it is very hard. Hydrogen sulfide is detected in about one-fourth of the wells. It can usually be removed by aeration. Salty water has been encountered in about 5 percent of the wells yielding water from the Lebanon.

CARTERS LIMESTONE (Oc)

The Carters limestone is one of the best known formations in the Central Basin. Well drillers commonly refer to it as the "brown lime." Its light-brown color contrasts sharply with the dark-blue beds of the overlying Hermitage formation. The Carters is 65 feet thick and consists

mostly of massively bedded limestone. The outcrops are often seen as steep risers between the steps produced by erosion of the Lebanon and Hermitage formations. In the eastern part of the Central Basin the Carters contains four thin beds of altered bentonite (Wilson, 1949, p. 62-65), the uppermost bed being at or near the top of the formation. In the remainder of the Central Basin only the three lower bentonite beds are present. If the calcareous shale partings in the Lebanon limestone are disregarded, the Carters and the Lebanon contain about the same amount of insoluble material. However, the thicker bedding of the Carters makes possible a better development of solution channels where water has access to the rock.

The Carters limestone is restricted as a water-bearing formation, however, by the overlying argillaceous Hermitage formation, which acts as an almost impervious cap preventing the downward seepage of water. For this reason the Carters does not have as good a record for yielding water as its chemical purity and massive bedding would suggest. Throughout the Central Basin the Carters has yielded water to 94 of 313 wells on which records are available. In three-fourths of the yielding wells water was encountered at depths of less than 100 feet. As the Hermitage formation restricts vertical seepage, the Carters must depend upon recharge at the outcrop. It seems that the chances of obtaining a water supply from the Carters are not favorable except where the formation is close enough to the surface to crop out near the area being drilled.

The quantity of water yielded to wells in the Carters limestone is, on the average, slightly greater than that yielded by the Ridley and Lebanon limestones. About 60 percent of the wells yield less than 5 gpm, and 6 percent yield more than 20 gpm.

Water from the Carters is similar in quality to that obtained from the Lebanon limestone. About one-fourth of the wells yield water that contains some hydrogen sulfide.

HERMITAGE FORMATION (Oh)

The Hermitage formation, ranging in thickness from 60 feet in the southern part of the Central Basin to 100 feet in the northern part, contains several members which intergrade laterally. Its identification in the field must take into account the locality, as outcrops of each member have characteristics differing from those of the other members. Wilson (1949, p. 82-102) defines the limits of occurrence of each member. The members differ in their content of fossils, phosphate, silt, and clay. In general, the strata of the Hermitage are very dark blue and are

easily distinguished from the light-colored underlying Carters limestone. Much of the Hermitage is thinly laminated with shale partings, particularly the lower part.

The shaly nature of the Hermitage formation makes it a poor water bearer. It also forms an effective seal, greatly restricting the downward seepage of water into the underlying formations. Acting as an impervious cap, the Hermitage is responsible for many of the areas of ground-water deficiency near the outer limits of the Central Basin.

Occasionally water is encountered in the Hermitage, usually near the top of the formation in areas where a zone of coquina made up largely of the fossil brachiopod *Dalmanella* is present. This zone is a massively bedded, very fossiliferous, limestone restricted to the western half of the Central Basin.

Available records show that the Hermitage has yielded water to 68 of 267 wells penetrating the formation. About 60 percent of the yielding wells in the Hermitage yield less than 5 gpm. Ten percent yield more than 20 gpm.

Water from the Hermitage formation is generally of good quality, although that from about one-fifth of the wells contains some hydrogen sulfide.

Because of the impervious nature of the Hermitage it is inadvisable to drill into the formation where it lies at a depth exceeding 100 feet. Of the 68 wells yielding water from the Hermitage, only 14 encountered water in the Hermitage at depths of more than 100 feet.

BIGBY-CANNON LIMESTONE (Oby-Ocn) *

The interval between the Hermitage and Catheys formations, ranging from 60 to 100 feet in the Central Basin, is occupied by the Bigby (Oby), Cannon (Ocn), and Dove-colored facies of the Bigby-Cannon limestone. West of a north-south line from Davidson County to Giles County the Hermitage-Catheys interval is occupied by the Bigby facies. East of a north-south line from Sumner County to Lincoln County, the Cannon facies occupies the interval. Between the two lines the facies intergrade.

The Bigby facies is the well-known phosphate rock horizon of Central Tennessee. It is an impure limestone containing about 20 percent of insoluble material. The rock is dark blue when fresh, weathering

**The classification of the Bigby-Cannon limestone in this report is in accord with recent published reports and usage by the Tennessee Division of Geology, but it does not coincide with the classification used by the U. S. Geological Survey.*

to brownish gray on the outcrop. Massive bedding is noted in fresh cuts, but strong crossbedding is seen in the weathered rock.

Rocks of the Cannon facies are nonphosphatic and are in most places finer grained and lighter in color than those of the Bigby facies. The content of insoluble material is only about one-fourth that of the Bigby facies.

A very dense, silt-free limestone, termed the "Dove" because of its very light-gray color, occurs as discontinuous bodies in the Bigby and Cannon facies. It ranges up to 40 feet in thickness and may be divided into two or more beds by the intervening Bigby and Cannon. The lateral extent of the Dove-colored facies is in most places impossible to determine without extensive drilling.

Available records show that water zones were encountered in 48 of 134 wells penetrating the Bigby facies. In about 75 percent of the wells the yield is less than 5 gpm; only 2 wells yield more than 20 gpm. Hydrogen sulfide is present in the water from about one-sixth of the wells in the Bigby facies. The remainder yield water of good quality.

The Cannon facies has yielded water to about 70 of 180 wells on which records are available. The yield and quality of water are recorded for only one-half of the 70 wells. Of those wells on which the records are complete 60 percent yield less than 5 gpm and 12 percent yield more than 20 gpm. The water is similar in quality to that found in the Bigby facies, one-sixth of the wells yielding water having a noticeable content of hydrogen sulfiide. Salty water was reported in four wells.

CATHEYS LIMESTONE (Ocy)

The Catheys limestone is a series of rather silty limestones divided into several facies on the basis of fossils, silt content, and bedding. The formation ranges in thickness from 50 feet in the southwestern part of the Central Basin to 200 feet at the eastern margin. Generally, the Catheys appears as a light-gray granular rock. It is exposed in the valleys of many streams in the outer parts of the Central Basin. In the interior of the Central Basin the formation caps many of the higher hills.

Records are available for 157 wells that have penetrated the Catheys limestone. The formation yielded water to 65 of the wells. Of 47 wells on which the yield is recorded, 60 percent yield less than 5 gpm; 6 percent yield more than 20 gpm. About 70 percent of the wells furnish water of good quality. Hydrogen sulfide is present in water from about one-fourth of the wells.

Reference No. 14

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University of British Columbia
Vancouver, British Columbia

John A. Cherry

Department of Earth Sciences
University of Waterloo
Waterloo, Ontario

GROUNDWATER

Prentice-Hall, Inc.
Englewood Cliffs, New Jersey 07632

Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

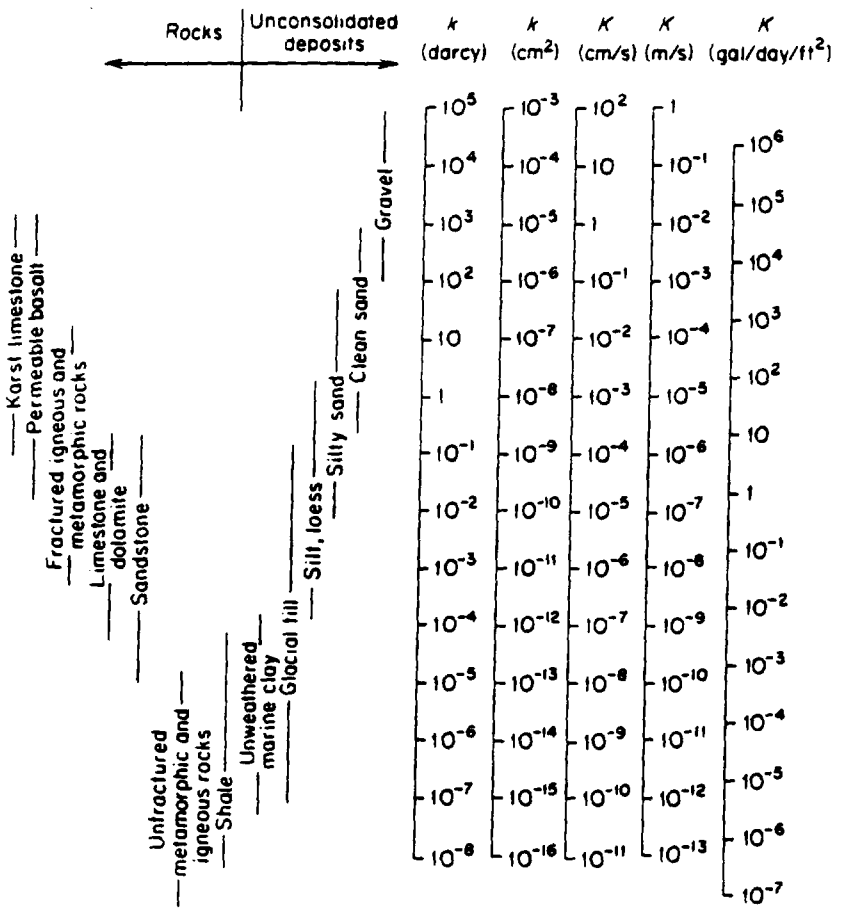


Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

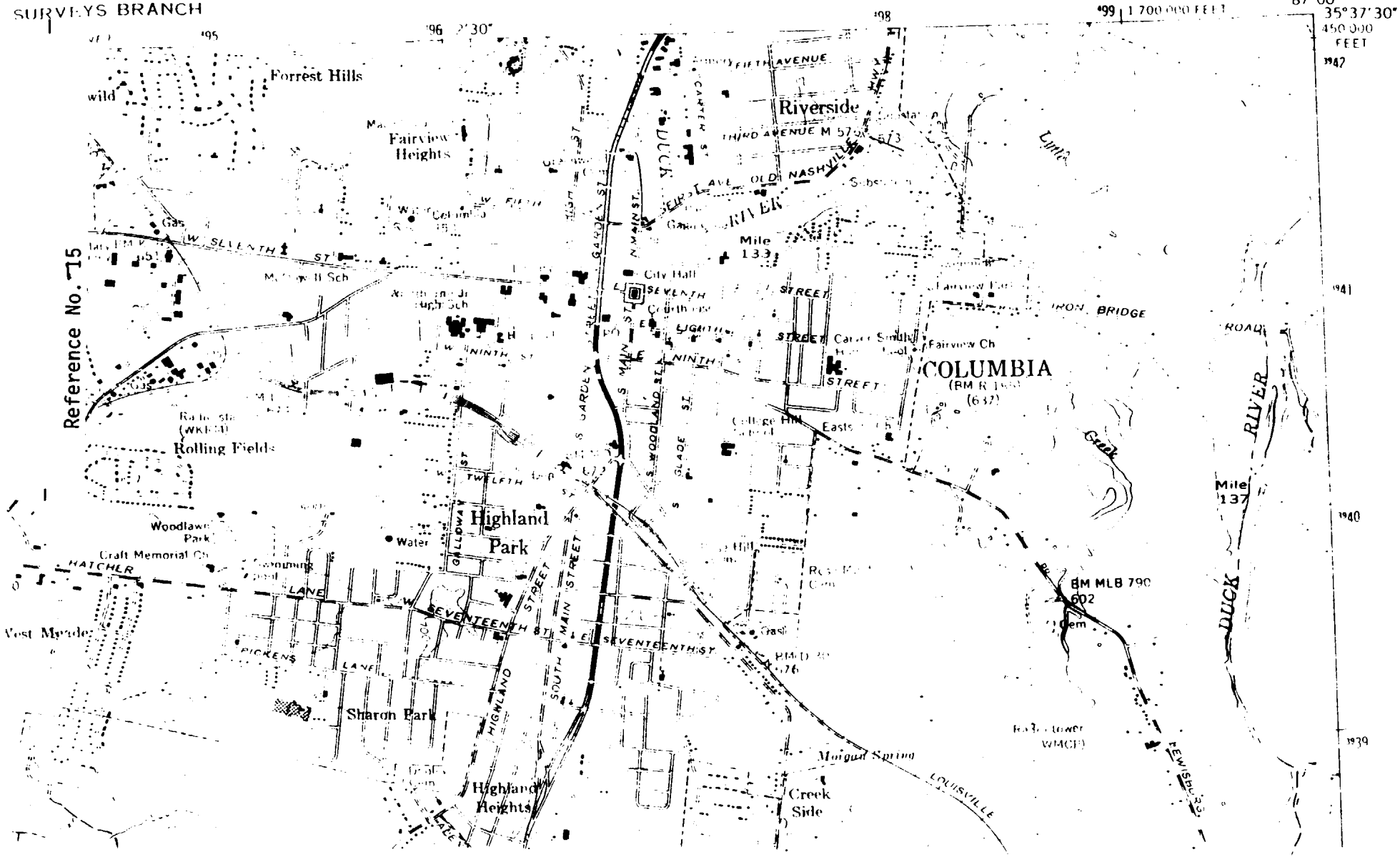
	Permeability, k*			Hydraulic conductivity, K		
	cm^2	ft^2	darcy	m/s	ft/s	U.S. gal/day/ft^2
cm^2	1	1.08×10^{-3}	1.01×10^{8}	9.80×10^{2}	3.22×10^{3}	1.85×10^{9}
ft^2	9.29×10^{2}	1	9.42×10^{10}	9.11×10^{5}	2.99×10^{6}	1.71×10^{12}
darcy	9.87×10^{-9}	1.06×10^{-11}	1	9.66×10^{-6}	3.17×10^{-5}	1.82×10^{1}
m/s	1.02×10^{-3}	1.10×10^{-6}	1.04×10^{5}	1	3.28	2.12×10^{6}
ft/s	3.11×10^{-4}	3.35×10^{-7}	3.15×10^{4}	3.05×10^{-1}	1	6.46×10^{5}
U.S. gal/day/ft^2	5.42×10^{-10}	5.83×10^{-13}	5.49×10^{-2}	4.72×10^{-7}	1.55×10^{-6}	1

*To obtain k in ft^2, multiply k in cm^2 by 1.08×10^{-3}.

ED STATES
VALLEY AUTHORITY
SURVEYS BRANCH

COLUMBIA QUADRANGLE
TENNESSEE-MAURY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC) 57-SE

3655 II NW
(CARTERS CREEK
64-NW)



Reference No. 15

NUS CORPORATION AND SUBSIDIA		CON NOTE
Reference No. 16		
CONTROL NO.	**DATE:** May 22, 1990	**TIME:** 1345
DISTRIBUTION: Oil Services Co., Inc. F4-8803-29		
BETWEEN: Ann Baker, Executive Secretary	**OF:** Maury County Water System	**PHONE:** (615) 381-3690
AND: Jerri Higgins, NUS Corporation		

DISCUSSION:

Ms. Baker was called for information about the source of drinking water and its distribution in the city of Columbia and Maury County, Tennessee. Columbia Water System supplies the city of Columbia and outlying areas as far as 5 miles from the city limits with water taken from the Duck River. The intake is located just northeast of town around where U.S. Highway 31 parallels with the Duck River. With the help of Ms. Baker, I was able to locate the intake at Mile 134 on the Duck River, where a pumping station is marked on the topographic map. Columbia Water System also sells water to the Maury County Water System, who distributes to more rural areas within the county, and to Mt. Pleasant and Spring Hill water systems. Mt. Pleasant and Spring Hill both have additional sources of water besides the Columbia Water Department - she believes they both use wells in addition.

Ms. Baker said that any residences in the county who do have wells are likely to be using the well water for outdoor use only (lawn watering or car washing). The city water is a more reliable source of water; wells and springs frequently run dry. Also, residents in Maury County are cautious about drinking groundwater because of the high rate of cancer cases within the county. No one is sure what is causing the cancer, but it is suspected that industries in the county are to blame.

For more information about the systems in the area, call:

Columbia Water System - Supervisor - Kelly Powell (615) 388-4833

Spring Hill Water System - June Quirk (615) 486-2252

Mt. Pleasant Water System - Larry Holden (615) 379-7717

Reference
#17

OVERSIZED

DOCUMENT

MAP

Site Inspection Report

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D089558019

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Oil Services Co., Inc	202 Hill Street				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG. DIST.**
Columbia	TN		Maury		

09 COORDINATES — LATITUDE: 35°31'21.0" | LONGITUDE: 087°02'15.0"

10 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
4/5/88 (MONTH / DAY / YEAR)	☐ ACTIVE ☐ INACTIVE	~1979 (BEGINNING YEAR) | present (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☒ B. EPA CONTRACTOR NUS Corporation (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
Phil Henderson	Geologist	NUS Corp.	(404-938-7710
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO**
Bob Tolford	Surveyor	NUS Corp	404938-7710
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
—			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☐ PERMISSION ☐ WARRANT		

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
		( )

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jerri Higgins	NUS Corp.		404-938-7710	05/30/90 (MONTH / DAY / YEAR)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D089558019

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

A SOLID
B POWDER, FINES
X C SLUDGE
D OTHER (Specify)
E SLURRY
X F LIQUID
G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS unknown
CUBIC YARDS
NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

X A TOXIC
X B CORROSIVE
C RADIOACTIVE
D PERSISTENT
E SOLUBLE
F INFECTIOUS
G FLAMMABLE
X H IGNITABLE
I HIGHLY VOLATILE
J EXPLOSIVE
K REACTIVE
L INCOMPATIBLE
M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	222,000	lbs/year	plating bath residues w/cyanides
OLW	OILY WASTE	unknown		
SOL	SOLVENTS	109,200	lbs/year	
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS	unknown		
BAS	BASES	unknown		
MES	HEAVY METALS	1000	lbs/year	

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	Arsenic	7440-38-2	Drums/tanks	unknown	
	Barium				
	Cadmium	7440-43-9			
	Chromium	7440-47-3			
	Lead				
	Selenium				
	Halogenated Solvents				
	Non-Halogenated Solvents				
	Cyanide				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Part A application for Oil Services Co., Inc - filed Nov. 17, 1980

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D089558019

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

None observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None observed

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ P. ILLEGAL, UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

In 1979, chemical wastes were disposed of on Frank Harris' property, 6 miles south of Columbia in Ashworth, TN. Also in 1979 and 1980, Ken Harris, president of Oil Services, treated oily wastes in his own back yard, north of Columbia.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

If any leaks or spills should occur during staging operations at the transporter facility, soils could be contaminated. Runoff from the site could enter the creek which flows into Duck River

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA and state file material – PA form for Ken Harris Oil - Carters Creek Pike facility and letters from state to Frank and Ken Harris.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D089558019

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~100 — 04 NARRATIVE DESCRIPTION

Most residences in Columbia and outlying areas use surface water as their source for drinking water. Few people would use wells since city supply is more reliable

01 ☐ B SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Runoff from site could enter creek flowing behind it which flows to the Duck River 0.3 stream miles away. The Duck River is used for recreation downstream. The intake is upstream.

01 ☐ C CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: >30,000 — 04 NARRATIVE DESCRIPTION

Any spills or leaks during staging could lead to contamination of the air. The site is in downtown Columbia.

01 ☐ D FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Oil Services handles ignitable wastes – any spill or leak could lead to problems.

01 ☐ E DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Workers onsite could be affected by contact with corrosive materials or hazardous waste should a leak or spill occur.

01 ☐ F CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: unknown (Acres) — 04 NARRATIVE DESCRIPTION

Soil could be contaminated in the event of a leak or spill.

01 ☐ G DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The drinking water intake is upstream from the facility.

01 ☐ H WORKER EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The number of workers at the site is not known; however any workers ousite could be affected by spills or leaks.

01 ☐ I POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: >30,000 — 04 NARRATIVE DESCRIPTION

There are an estimated 30,000 people in Columbia.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 089558019

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Specify)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)	1254	6/3/85	3/1/1986	transporter permit (most recent permit in file)
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND	N/A	
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☒ A. BUILDINGS ON SITE: 1 or 2

06 AREA OF SITE

unknown Acres

07 COMMENTS

Site is a transporter facility.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☒ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

No records of spills or leaks during staging process

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☐ YES ☒ NO

02 COMMENTS

Drums of waste are contained in tractor-trailers until shipment to Emelle, Alabama

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

EPA and state file material

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D089558019

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL
COMMUNITY	A. X	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS	ENDANGERED	AFFECTED	MONITORED
	A. ☐	B. ☐	C. ☐
	D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE
A upstream (mi)
B _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) X C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) X D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER ~100

03 DISTANCE TO NEAREST DRINKING WATER WELL 2.0 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
15 (ft)	unknown	15 (ft)	unknown (gpd)	☐ YES X NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

Few, if any, residences use groundwater for a drinking water sources within 3 miles of site. Groundwater is not as reliable a source as the community surface water supply. Well owners probably use wells for car-washing and lawn-watering only

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☐ NO	COMMENTS	X YES ☐ NO	COMMENTS Near Duck River

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

X A. RESERVOIR, RECREATION, DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED (POTENTIALLY AFFECTED) BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Duck River	☐	0.3 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. _____ NO. OF PERSONS	B. _____ NO. OF PERSONS	C. _____ NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION
<0.1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
unknown	0.09 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site (e.g., rural, village, densely populated urban area))

Oil Services is located in the north part of city limits of Columbia. Columbia is a town with a population of ~30,000.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: TN | 02 SITE NUMBER: D089558019

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)
A. 10^{-6} – 10^{-4} cm/sec | X B. 10^{-4} – 10^{-6} cm/sec | C. 10^{-4} – 10^{-3} cm/sec | D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)
A. IMPERMEABLE (Less than 10^{-6} cm/sec) | B. RELATIVELY IMPERMEABLE (10^{-4} – 10^{-6} cm/sec) | X C. RELATIVELY PERMEABLE (10^{-2} – 10^{-4} cm/sec) | D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
~20 (ft)	~~00~~ N/A (ft)	unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
13 (in)	3.2 (in)	3.0 %	NW	____ %

09 FLOOD POTENTIAL
SITE IS IN ____ YEAR FLOODPLAIN

10
☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)
ESTUARINE: A. N/A (mi) | OTHER: B. ____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
N/A (mi)
ENDANGERED SPECIES. ____

13 LAND USE IN VICINITY

DISTANCE TO: COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. 0 (mi)	B. 0. (mi)	C. unknown (mi)	D. unknown (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site is located in small depression. Intermittent creek runs behind site and intersects with Hillcrest Creek which flows to the east into the Duck River. Surrounding topography is moderately hilly with areas of steep relief.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Conversation with Maury Co. Water dept. representative. NUS logbook of offsite reconnaissance, Topographic maps (Columbia, TN; Godwin, TN; Carters Creek, TN; Glendale, TN).

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D089558019

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

NA

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE [X] GROUND [ ] AERIAL

02 IN CUSTODY OF NUS Corporation
Name of organization or individual

03 MAPS [X] YES [ ] NO

04 LOCATION OF MAPS NUS Corporation - Radius map

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NUS Corporation Logbook # F4-770

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA and state file material

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D089558019

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Oil Services Co., Inc	089558019	202 Hill Street		Columbia	TN	38401

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

EPA and state file material

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D089558019

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Oil Services Co., Inc	089558019

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
202 Hill Street	

05 CITY	06 STATE	07 ZIP CODE
Columbia	TN	38401

08 YEARS OF OPERATION	09 NAME OF OWNER
1978 - present (1990)	Ken Harris / Steve Blum

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D089558019

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Oil Services Co., Inc			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Same as above			

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

The site is a transporter facility

EPA and state file material

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D089558019

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D089558019

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D089558019

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION YES (NO)

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

Oil Services filed a Part A application on November 17, 1980, but withdrew the application and interim status was terminated on October 3, 1984. No enforcement action has been taken at the site.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA and state file material

EPA FORM 2070-13 (7-81)

APPENDIX

I. FEEDSTOCKS

CAS Number	Chemical Name
1. 7664-41-7	Ammonia
2. 7440-36-0	Antimony
3. 1309-64-4	Antimony Trioxide
4. 7440-38-2	Arsenic
5. 1327-53-3	Arsenic Trioxide
6. 21109-95-5	Barium Sulfide
7. 7726-95-6	Bromine
8. 106-99-0	Butadiene
9. 7440-43-9	Cadmium
10. 7782-50-5	Chlorine
11. 12737-27-8	Chromite
12. 7440-47-3	Chromium
13. 7440-48-4	Cobalt
14. 1317-38-0	Cupric Oxide
15. 7758-98-7	Cupric Sulfate
16. 1317-39-1	Cuprous Oxide
17. 74-85-1	Ethylene
18. 7647-01-0	Hydrochloric Acid
19. 7664-39-3	Hydrogen Fluoride
20. 1335-25-7	Lead Oxide
21. 7439-97-6	Mercury
22. 74-82-8	Methane
23. 91-20-3	Napthalene
24. 7440-02-0	Nickel
25. 7697-37-2	Nitric Acid
26. 7723-14-0	Phosphorus
27. 7778-50-9	Potassium Dichromate
28. 1310-58-3	Potassium Hydroxide
29. 115-07-1	Propylene
30. 10588-01-9	Sodium Dichromate
31. 1310-73-2	Sodium Hydroxide
32. 7646-78-8	Stannic Chloride
33. 7772-99-8	Stannous Chloride
34. 7664-93-9	Sulfuric Acid
35. 108-88-3	Toluene
36. 1330-20-7	Xylene
37. 7646-85-7	Zinc Chloride
38. 7733-02-0	Zinc Sulfate

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name
1. 75-07-0	Acetaldehyde
2. 64-19-7	Acetic Acid
3. 108-24-7	Acetic Anhydride
4. 75-86-5	Acetone Cyanohydrin
5. 506-96-7	Acetyl Bromide
6. 75-36-5	Acetyl Chloride
7. 107-02-8	Acrolein
8. 107-13-1	Acrylonitrile
9. 124-04-9	Adipic Acid
10. 309-00-2	Aldrin
11. 10043-01-3	Aluminum Sulfate
12. 107-18-6	Allyl Alcohol
13. 107-05-1	Allyl Chloride
14. 7664-41-7	Ammonia
15. 631-61-8	Ammonium Acetate
16. 1863-63-4	Ammonium Benzoate
17. 1066-33-7	Ammonium Bicarbonate
18. 7789-09-5	Ammonium Bichromate
19. 1341-49-7	Ammonium Bifluoride
20. 10192-30-0	Ammonium Bisulfite
21. 1111-78-0	Ammonium Carbamate
22. 12125-02-9	Ammonium Chloride
23. 7788-98-9	Ammonium Chromate
24. 3012-65-5	Ammonium Citrate, Dibasic
25. 13826-83-0	Ammonium Fluoborate
26. 12125-01-8	Ammonium Fluoride
27. 1336-21-6	Ammonium Hydroxide
28. 6009-70-7	Ammonium Oxalate
29. 16919-19-0	Ammonium Silicofluoride
30. 7773-06-0	Ammonium Sulfamate
31. 12135-76-1	Ammonium Sulfide
32. 10196-04-0	Ammonium Sulfite
33. 14307-43-8	Ammonium Tartrate
34. 1762-95-4	Ammonium Thiocyanate
35. 7783-18-8	Ammonium Thiosulfate
36. 628-63-7	Amyl Acetate
37. 62-53-3	Aniline
38. 7647-18-9	Antimony Pentachloride
39. 7789-61-9	Antimony Tribromide
40. 10025-91-9	Antimony Trichloride
41. 7783-56-4	Antimony Trifluoride
42. 1309-64-4	Antimony Trioxide
43. 1303-32-8	Arsenic Disulfide
44. 1303-28-2	Arsenic Pentoxide
45. 7784-34-1	Arsenic Trichloride
46. 1327-53-3	Arsenic Trioxide
47. 1303-33-9	Arsenic Trisulfide
48. 542-62-1	Barium Cyanide
49. 71-43-2	Benzene
50. 65-85-0	Benzoic Acid
51. 100-47-0	Benzonitrile
52. 98-88-4	Benzoyl Chloride
53. 100-44-7	Benzyl Chloride
54. 7440-41-7	Beryllium
55. 7787-47-5	Beryllium Chloride
56. 7787-49-7	Beryllium Fluoride
57. 13597-99-4	Beryllium Nitrate
58. 123-86-4	Butyl Acetate
59. 84-74-2	n-Butyl Phthalate
60. 109-73-9	Butylamine
61. 107-92-6	Butyric Acid
62. 543-90-8	Cadimium Acetate
63. 7789-42-6	Cadmium Bromide
64. 10108-64-2	Cadmium Chloride
65. 7778-44-1	Calcium Arsenate
66. 52740-16-6	Calcium Arsenite
67. 75-20-7	Calcium Carbide
68. 13765-19-0	Calcium Chromate
69. 592-01-8	Calcium Cyanide
70. 26264-06-2	Calcium Dodecylbenzene Sulfonate
71. 7778-54-3	Calcium Hypochlorite
72. 133-06-2	Captan
73. 63-25-2	Carbaryl
74. 1563-66-2	Carbofuran
75. 75-15-0	Carbon Disulfide
76. 56-23-5	Carbon Tetrachloride
77. 57-74-9	Chlordane
78. 7782-50-5	Chlorine
79. 108-90-7	Chlorobenzene
80. 67-66-3	Chloroform
81. 7790-94-5	Chlorosulfonic Acid
82. 2921-88-2	Chlorpyrifos
83. 1066-30-4	Chromic Acetate
84. 7738-94-5	Chromic Acid
85. 10101-53-8	Chromic Sulfate
86. 10049-05-5	Chromous Chloride
87. 544-18-3	Cobaltous Formate
88. 14017-41-5	Cobaltous Sulfamate
89. 56-72-4	Coumaphos
90. 1319-77-3	Cresol
91. 4170-30-3	Crotonaldehyde
92. 142-71-2	Cupric Acetate
93. 12002-03-8	Cupric Acetoarsenite
94. 7447-39-4	Cupric Chloride
95. 3251-23-8	Cupric Nitrate
96. 5893-66-3	Cupric Oxalate
97. 7758-98-7	Cupric Sulfate
98. 10380-29-7	Cupric Sulfate Ammoniated
99. 815-82-7	Cupric Tartrate
100. 506-77-4	Cyanogen Chloride
101. 110-82-7	Cyclohexane
102. 94-75-7	2,4-D Acid
103. 94-11-1	2,4-D Esters
104. 50-29-3	DDT
105. 333-41-5	Diazinon
106. 1918-00-9	Dicamba
107. 1194-65-6	Dichlobenil
108. 117-80-6	Dichlone
109. 25321-22-6	Dichlorobenzene (all isomers)
110. 266-38-19-7	Dichloropropane (all isomers)
111. 26952-23-8	Dichloropropene (all isomers)
112. 8003-19-8	Dichloropropene-Dichloropropane Mixture
113. 75-99-0	2-2-Dichloropropionic Acid
114. 62-73-7	Dichlorvos
115. 60-57-1	Dieldrin
116. 109-89-7	Diethylamine
117. 124-40-3	Dimethylamine
118. 25154-54-5	Dinitrobenzene (all isomers)
119. 51-28-5	Dinitrophenol
120. 25321-14-6	Dinitrotoluene (all isomers)
121. 85-00-7	Diquat
122. 298-04-4	Disulfoton
123. 330-54-1	Diuron
124. 27176-87-0	Dodecylbenzenesulfonic Acid
125. 115-29-7	Endosulfan (all isomers)
126. 72-20-8	Endrin and Metabolites
127. 106-89-8	Epichlorohydrin
128. 563-12-2	Ethion
129. 100-41-4	Ethyl Benzene
130. 107-15-3	Ethylenediamine
131. 106-93-4	Ethylene Dibromide
132. 107-06-2	Ethylene Dichloride
133. 60-00-4	EDTA
134. 1185-57-5	Ferric Ammonium Citrate
135. 2944-67-4	Ferric Ammonium Oxalate
136. 7705-08-0	Ferric Chloride

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name
137. 7783-50-8	Ferric Fluoride
138. 10421-48-4	Ferric Nitrate
139. 10028-22-5	Ferric Sulfate
140. 10045-89-3	Ferrous Ammonium Sulfate
141. 7758-94-3	Ferrous Chloride
142. 7720-78-7	Ferrous Sulfate
143. 206-44-0	Fluoranthene
144. 50-00-0	Formaldehyde
145. 64-18-6	Formic Acid
146. 110-17-8	Fumaric Acid
147. 98-01-1	Furfural
148. 86-50-0	Guthion
149. 76-44-8	Heptachlor
150. 118-74-1	Hexachlorobenzene
151. 87-68-3	Hexachlorobutadiene
152. 67-72-1	Hexachloroethane
153. 70-30-4	Hexachlorophene
154. 77-47-4	Hexachlorocyclopentadiene
155. 7647-01-0	Hydrochloric Acid (Hydrogen Chloride)
156. 7664-39-3	Hydrofluoric Acid (Hydrogen Fluoride)
157. 74-90-8	Hydrogen Cyanide
158. 7783-06-4	Hydrogen Sulfide
159. 78-79-5	Isoprene
160. 42504-46-1	Isopropanolamine Dodecylbenzenesulfonate
161. 115-32-2	Kelthane
162. 143-50-0	Kepone
163. 301-04-2	Lead Acetate
164. 3687-31-8	Lead Arsenate
165. 7758-95-4	Lead Chloride
166. 13814-96-5	Lead Fluoborate
167. 7783-46-2	Lead Fluoride
168. 10101-63-0	Lead Iodide
169. 18256-98-9	Lead Nitrate
170. 7428-48-0	Lead Stearate
171. 15739-80-7	Lead Sulfate
172. 1314-87-0	Lead Sulfide
173. 592-87-0	Lead Thiocyanate
174. 58-89-9	Lindane
175. 14307-35-8	Lithium Chromate
176. 121-75-5	Malthion
177. 110-16-7	Maleic Acid
178. 108-31-6	Maleic Anhydride
179. 2032-65-7	Mercaptodimethur
180. 592-04-1	Mercuric Cyanide
181. 10045-94-0	Mercuric Nitrate
182. 7783-35-9	Mercuric Sulfate
183. 592-85-8	Mercuric Thiocyanate
184. 10415-75-5	Mercurous Nitrate
185. 72-43-5	Methoxychlor
186. 74-93-1	Methyl Mercaptan
187. 80-62-6	Methyl Methacrylate
188. 298-00-0	Methyl Parathion
189. 7786-34-7	Mevinphos
190. 315-18-4	Mexacarbate
191. 75-04-7	Monoethylamine
192. 74-89-5	Monomethylamine
193. 300-76-5	Naled
194. 91-20-3	Naphthalene
195. 1338-24-5	Naphthenic Acid
196. 7440-02-0	Nickel
197. 15699-18-0	Nickel Ammonium Sulfate
198. 37211-05-5	Nickel Chloride
199. 12054-48-7	Nickel Hydroxide
200. 14216-75-2	Nickel Nitrate
201. 7786-81-4	Nickel Sulfate
202. 7697-37-2	Nitric Acid
203. 98-95-3	Nitrobenzene
204. 10102-44-0	Nitrogen Dioxide
205. 25154-55-6	Nitrophenol (all isomers)
206. 1321-12-6	Nitrotoluene
207. 30525-89-4	Paraformaldehyde
208. 56-38-2	Parathion
209. 608-93-5	Pentachlorobenzene
210. 87-86-5	Pentachlorophenol
211. 85-01-8	Phenanthrene
212. 108-95-2	Phenol
213. 75-44-5	Phosgene
214. 7664-38-2	Phosphoric Acid
215. 7723-14-0	Phosphorus
216. 10025-87-3	Phosphorus Oxychloride
217. 1314-80-3	Phosphorus Pentasulfide
218. 7719-12-2	Phosphorus Trichloride
219. 7784-41-0	Potassium Arsenate
220. 10124-50-2	Potassium Arsenite
221. 7778-50-9	Potassium Bichromate
222. 7789-00-6	Potassium Chromate
223. 7722-64-7	Potassium Permanganate
224. 2312-35-8	Propargite
225. 79-09-4	Propionic Acid
226. 123-62-6	Propionic Anhydride
227. 1336-36-3	Polychlorinated Biphenyls
228. 151-50-8	Potassium Cyanide
229. 1310-58-3	Potassium Hydroxide
230. 75-56-9	Propylene Oxide
231. 121-29-9	Pyrethrins
232. 91-22-5	Quinoline
233. 108-46-3	Resorcinol
234. 7446-08-4	Selenium Oxide
235. 7761-88-8	Silver Nitrate
236. 7631-89-2	Sodium Arsenate
237. 7784-46-5	Sodium Arsenite
238. 10588-01-9	Sodium Bichromate
239. 1333-83-1	Sodium Bifluoride
240. 7631-90-5	Sodium Bisulfite
241. 7775-11-3	Sodium Chromate
242. 143-33-9	Sodium Cyanide
243. 25155-30-0	Sodium Dodecylbenzene Sulfonate
244. 7681-49-4	Sodium Fluoride
245. 16721-80-5	Sodium Hydrosulfide
246. 1310-73-2	Sodium Hydroxide
247. 7681-52-9	Sodium Hypochlorite
248. 124-41-4	Sodium Methylate
249. 7632-00-0	Sodium Nitrate
250. 7558-79-4	Sodium Phospnate, Dibasic
251. 7601-54-9	Sodium Phosphate, Tribasic
252. 10102-18-8	Sodium Selenite
253. 7789-06-2	Strontium Chromate
254. 57-24-9	Strychnine and Salts
255. 100-420-5	Styrene
256. 12771-08-3	Sulfur Monochloride
257. 7664-93-9	Sulfuric Acid
258. 93-76-5	2,4,5-T Acid
259. 2008-46-0	2,4,5-T Amines
260. 93-79-8	2,4,5-T Esters
261. 13560-99-1	2,4,5-T Salts
262. 93-72-1	2,4,5-TP Acid
263. 32534-95-5	2,4,5-TP Acid Esters
264. 72-54-8	TDE
265. 95-94-3	Tetrachlorobenzene
266. 127-18-4	Tetrachloroethane
267. 78-00-2	Tetraethyl Lead
268. 107-49-3	Tetraethyl Pyrophospnate
269. 7446-18-6	Thallium (I) Sulfate
270. 108-88-3	Toluene
271. 8001-35-2	Toxaphene
272. 12002-48-1	Trichlorobenzene (all isomers)
273. 52-68-6	Trichlorfon
274. 25323-89-1	Trichloroethane (all isomers)
275. 79-01-6	Trichloroethylene
276. 25167-82-2	Trichlorophenol (all isomers)
277. 27323-41-7	Triethanolamine Dodecylbenzenesulfonate
278. 121-44-8	Triethylamine
279. 75-50-3	Trimethylamine
280. 541-09-3	Uranyl Acetate
281. 10102-06-4	Uranyl Nitrate
282. 1314-62-1	Vanadium Pentoxide
283. 27774-13-6	Vanadyl Sulfate
284. 108-05-4	Vinyl Acetate
285. 75-35-4	Vinylidene Chloride
286. 1300-71-6	Xylenol
287. 557-34-6	Zinc Acetate
288. 52628-25-8	Zinc Ammonium Chloride
289. 1332-07-6	Zinc Borate
290. 7699-45-8	Zinc Bromide
291. 3486-35-9	Zinc Carbonate
292. 7646-85-7	Zinc Chloride
293. 557-21-1	Zinc Cyanide
294. 7783-49-3	Zinc Fluoride
295. 557-41-5	Zinc Formate
296. 7779-86-4	Zinc Hydrosulfite
297. 7779-88-6	Zinc Nitrate
298. 127-82-2	Zinc Phenolsulfonate
299. 1314-84-7	Zinc Phosphide
300. 16871-71-9	Zinc Silicofluoride
301. 7733-02-0	Zinc Sulfate
302. 13746-89-9	Zirconium Nitrate
303. 16923-95-8	Zirconium Potassium Fluoride
304. 14644-61-2	Zirconium Sulfate
305. 10026-11-6	Zirconium Tetrachloride

CERCLA ELIGIBILITY QUESTIONNAIRE

Site Name: Oil Services Co. Inc.

City: Columbia State: Tennessee

EPA ID Number: TND089558019

I. CERCLA ELIGIBILITY	Yes	No
Did the facility cease operations prior to November 19, 1980?		✓

If answer YES, STOP, facility is probably a CERCLA site.

If answer NO, Continue to Part II.

II. RCRA ELIGIBILITY	Yes	No
Did the facility file a RCRA Part A application?	✓	
If YES:		
1. Does the facility currently have interim status?		✓
2. Did the facility withdraw its Part A application?	✓	
3. Is the facility a known or possible protective filer? (facility filed in error)	✓	
4. Type of facility:		
Generator ____ Transporter ✓ Recycler ____		
TSD (Treatment/Storage/Disposal) ____		
Does the facility have a RCRA operating or post closure permit?		✓
Is the facility a late (after 11/19/80) or non-filer that has been identified by the EPA or the State? (facility did not know it needed to file under RCRA)		✓

If all answers to questions in Part II are NO, STOP, the facility is a CERCLA eligible site.

If answer to #2 or #3 is YES, STOP, the facility is a CERCLA eligible site.

If answer #2 and #3 are NO and any OTHER answer is YES, site is RCRA, continue to Part III.

III. RCRA SITES ELIGIBLE FOR NPL	Yes	No
Has the facility owner filed for bankruptcy under federal or state laws?		
Has the facility lost RCRA authorization to operate or shown probable unwillingness to carry out corrective action?		
Is the facility a TSD that converted to a generator, transporter or recycler facility after November 19, 1980?		

HAZARD RANKING SYSTEM SCORING SUMMARY

FOR

OIL SERVICES CO., INC.
EPA SITE NUMBER TND089558019
COLUMBIA
MAURY COUNTY, TN
EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY JERRI HIGGINS
OF NUS CORPORATION
ON 05/23/90

DATE OF THIS REPORT: 05/24/90
DATE OF LAST MODIFICATION: 05/24/90

GROUND WATER ROUTE SCORE	:	19.46
SURFACE WATER ROUTE SCORE	:	10.18
AIR ROUTE SCORE	:	0.00
MIGRATION SCORE	:	12.69

HRS GROUND WATER ROUTE SCORE

CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCORE
1. OBSERVED RELEASE	NO	0	0
2. ROUTE CHARACTERISTICS			
DEPTH TO WATER TABLE	15 FEET		
DEPTH TO BOTTOM OF WASTE	6 FEET		
DEPTH TO AQUIFER OF CONCERN	9 FEET	3	6
PRECIPITATION	50.0 INCHES		
EVAPORATION	37.0 INCHES		
NET PRECIPITATION	13.0 INCHES	2	2
PERMEABILITY	1.0X10-3 CM/SEC	2	2
PHYSICAL STATE		3	3
TOTAL ROUTE CHARACTERISTICS SCORE:			13
3. CONTAINMENT		3	3
4. WASTE CHARACTERISTICS			
TOXICITY/PERSISTENCE:ASSIGNED VALUE,18			18
WASTE QUANTITY CUBIC YDS	2501		
DRUMS	0		
GALLONS	0		
TONS	0		
TOTAL	2501 CU. YDS	8	8
TOTAL WASTE CHARACTERISTICS SCORE:			26
5. TARGETS			
GROUND WATER USE		1	3
DISTANCE TO NEAREST WELL	10561 FEET		
AND	MATRIX VALUE	8	8
TOTAL POPULATION SERVED	384 PERSONS		
NUMBER OF HOUSES	101		
NUMBER OF PERSONS	0		
NUMBER OF CONNECTIONS	0		
NUMBER OF IRRIGATED ACRES	0		
TOTAL TARGETS SCORE:			11

GROUND WATER ROUTE SCORE (Sgw) = 19.46

HRS SURFACE WATER ROUTE SCORE

CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCORE
1. OBSERVED RELEASE	NO	0	0
2. ROUTE CHARACTERISTICS			
SITE LOCATED IN SURFACE WATER	NO		
SITE WITHIN CLOSED BASIN	NO		
FACILITY SLOPE	3.0 %		
INTERVENING SLOPE	25.0 %	2	2
24-HOUR RAINFALL	3.2 INCHES	3	3
DISTANCE TO DOWN-SLOPE WATER	12 FEET	3	6
PHYSICAL STATE	3		3
TOTAL ROUTE CHARACTERISTICS SCORE:			14
3. CONTAINMENT	3		3
4. WASTE CHARACTERISTICS			
TOXICITY/PERSISTENCE:ASSIGNED VALUE,18			18
WASTE QUANTITY CUBIC YDS	2501		
DRUMS	0		
GALLONS	0		
TONS	0		
TOTAL	2501 CU. YDS	8	8
TOTAL WASTE CHARACTERISTICS SCORE:			26
5. TARGETS			
SURFACE WATER USE		2	6
DISTANCE TO SENSITIVE ENVIRONMENTS		0	0
COASTAL WETLANDS	NONE		
FRESH-WATER WETLANDS	NONE		
CRITICAL HABITAT	NONE		
DISTANCE TO STATIC WATER	> 3 MILES		
DISTANCE TO WATER SUPPLY INTAKE	> 3 MILES		
AND	MATRIX VALUE	0	0
TOTAL POPULATION SERVED	0		
NUMBER OF HOUSES	0		
NUMBER OF PERSONS	0		
NUMBER OF CONNECTIONS	0		
NUMBER OF IRRIGATED ACRES	0		
TOTAL TARGETS SCORE:			6

SURFACE WATER ROUTE SCORE (Ssw) = 10.18

HRS AIR ROUTE SCORE

CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCORE
1. OBSERVED RELEASE	NO	0	0

2. WASTE CHARACTERISTICS

REACTIVITY: MATRIX VALUE

INCOMPATIBILITY

TOXICITY

WASTE QUANTITY
- CUBIC YARDS
- DRUMS
- GALLONS
- TONS

TOTAL

TOTAL WASTE CHARACTERISTICS SCORE: N/A

3. TARGETS

POPULATION WITHIN 4-MILE RADIUS
- 0 to 0.25 mile
- 0 to 0.50 mile
- 0 to 1.0 mile
- 0 to 4.0 miles

DISTANCE TO SENSITIVE ENVIRONMENTS
- COASTAL WETLANDS
- FRESH-WATER WETLANDS
- CRITICAL HABITAT

DISTANCE TO LAND USES
- COMMERCIAL/INDUSTRIAL
- PARK/FOREST/RESIDENTIAL
- AGRICULTURAL LAND
- PRIME FARMLAND
- HISTORIC SITE WITHIN VIEW?

TOTAL TARGETS SCORE: N/A

AIR ROUTE SCORE (Sa) = 0.00

HAZARD RANKING SYSTEM SCORING CALCULATIONS
FOR
SITE: OIL SERVICES CO., INC.
AS OF 05/24/90

GROUND WATER ROUTE SCORE

ROUTE CHARACTERISTICS		13
CONTAINMENT	X	3
WASTE CHARACTERISTICS	X	26
TARGETS	X	11

= 11154 /57,330 X 100 = 19.46 = S_{gw}

SURFACE WATER ROUTE SCORE

ROUTE CHARACTERISTICS		14
CONTAINMENT	X	3
WASTE CHARACTERISTICS	X	26
TARGETS	X	6

= 6552 /64,350 X 100 = 10.18 = S_{sw}

AIR ROUTE SCORE

OBSERVED RELEASE 0 /35,100 X 100 = 0.00 = S_{air}

SUMMARY OF MIGRATION SCORE CALCULATIONS

	S	S^2
GROUND WATER ROUTE SCORE (S_{gw})	19.46	378.69
SURFACE WATER ROUTE SCORE (S_{sw})	10.18	103.63
AIR ROUTE SCORE (S_{air})	0.00	0.00
$S^2_{gw} + S^2_{sw} + S^2_{air}$		482.32
$\sqrt{(S^2_{gw} + S^2_{sw} + S^2_{air})}$		21.96
$S_M = \sqrt{(S^2_{gw} + S^2_{sw} + S^2_{air})}/1.73$		12.69

RECONNAISSANCE CHECKLIST FOR HRS2 CONCERNS

Instructions: Obtain as much "up front" information as possible prior to conducting fieldwork. Complete the form in as much detail as you can, providing attachments as necessary. Cite the source for all information obtained.

Site name: Oil Services Inc (OSCO)
City, County, State: Columbia/maury co/TN
EPA ID No.:
Person responsible for form: Phillip Henderson
Date: 4/5/86

Air Pathway

Describe any potential air emission sources onsite: Unknown facility is essentially parking area for OSCO trucks with Trailer office + garage. Air emission only if there was a spill
Identify any sensitive environments within 4 miles:

Identify the maximally exposed individual (nearest residence or regularly occupied building - workers do count): Nearest Residence (Trailer home) ~35 ft from SW Boundary

Groundwater Pathway

Identify any areas of karst terrain: Possible Karst Terrain, However surface water is dominate source of drinking water

Identify additional population due to consideration of wells completed in overlying aquifers to the AOC: N/A

Do significant targets exist between 3 and 4 miles from the site? NO

Is the AOC a sole source aquifer according to Safe Drinking Water Act? (i.e. is the site located in Dade, Broward, Volusia, Putnam, or Flager County, Florida) NO

Surface Water Pathway

Are there intakes located on the extended 15-mile migration pathway? No (Telecon w/ Ann Baker)

Are there recreational areas, sensitive environments, or human food chain targets (fisheries) along the extended pathway? Yes, Duck River is used for recreation (logbook)

Onsite Exposure Pathway

Is there waste or contaminated soil onsite at 2 feet below land surface or higher?
No visible evidence of near surface waste observed during recon.
Is the site accessible to non-employees (workers do not count)?
Site is completely fenced

Are there residences, schools, or daycare centers onsite or in close proximity?
Trailer Home ~35ft from SW Boundary of site, Community Center, Elementary School, Nursing home within ½ mile of site
Are there barriers to travel (e.g., a river) within one mile?
yes, The Duck River, but there are bridges across it, so not sure how to classify.
See maps

SITE SCREENING - PRELIMINARY SITE SCORING

TND 089558019

FACILITY NAME OIL SERVICES CO.

LOCATION 202 HILL STREET
COLUMBIA, MAURY COUNTY, TENNESSEE

PERSON(S) IN CHARGE OF FACILITY KENNETH HARRIS

NAME OF REVIEWER CHARLES R. RUSH

DATE 7/31/87

COMMENTS

THIS IS AN ACTIVE FACILITY THAT HAS FILED A PART "B" PERMIT (8/8/83). FOR THIS REASON THE SITE IS ASSUMED TO BE A RCRA FACILITY AND NO FURTHER ACTION IS RECOMMENDED FOR SUPERFUND

PRELIMINARY SITE SCORING

SCORES: S_m = (S_{gw} = S_{sw} = S_a =)

S_{dc} =

NOT RATED

RCRA

RCRA SUMMARY
OIL SERVICES CO.
202 HILL STREET
COLUMBIA, TENNESSEE
TND 089558019

THIS FACILITY TRANSPORTS HAZARDOUS AND NON-HAZARDOUS WASTES. THE COMPANY IS A PERMITTED HAZARDOUS WASTE TRANSPORTER ACCORDING TO DOCUMENTATION. PERMIT DATE IS UNKNOWN. ACTUAL PART "B" PERMIT DATE IS ALSO UNKNOWN BUT FILE DOCUMENTS STATE THAT THE FACILITY IS A PART "B" FILER. FOR THIS REASON THE FACILITY IS CONSIDERED TO BE RCRA PERMITTED

M.2 - SITE MAINTENANCE FORM

EPA ID : TND089558019

SITE NAME: OIL SERVICES CO INC SOURCE: H

STREET : 202 HILL ST CONG DIST: 06

CITY : COLUMBIA ZIP: 38401

CNTY NAME: MAURY CNTY CODE : 119

LATITUDE : 35/37/22.0 LONGITUDE : 085/02/33.0

LL-SOURCE: R LL-ACCURACY:

SMSA : HYDRO UNIT: 06040003

INVENTORY IND: Y REMEDIAL IND: Y REMOVAL IND: N FED FAC IND: N

NPL IND: N NPL LISTING DATE: NPL DELISTING DATE:

SITE/SPILL IDS:

RPM NAME: RPM PHONE: - -

SITE CLASSIFICATION: SITE APPROACH:

DIOXIN TIER: REG FLD1: REG FLD2: 7

RESP TERM: PENDING ( ) NO FURTHER ACTION ( )

ENF DISP: NO VIABLE RESP PARTY ( ) VOLUNTARY RESPONSE ( )
ENFORCED RESPONSE ( ) COST RECOVERY ( )

SITE DESCRIPTION:

* ACTION: _

* _ _

* _ _

* _ _____-____

* _ ___

* __/__/__._ ___/__/__._

* _ _

* ____ _____

* _ _ _ _

* _ __/__ __/__

* __ __ __ __ __

* _____ ___-___-____

* __ ____

* ____ _____ _

* PENDING (_) NO FURTHER ACTION (_)

* _ _
* _ _

* _____

* _____

* _____

* _____

M.2 - ALIAS/ALIAS LOCATION MAINTENANCE FORM

ACTION: _

SITE: OIL SERVICES CO INC

EPA ID: TND089558019 ALIAS SEQ NO: 01

ALIAS NAME: KENNETH HARRIS OIL SOURCE: S

ALIAS LOCATION ACTION: _

CONTIGUOUS PORTION OF SITE? C FED FAC IND: N

STREET : CARTERS CREEK PIKE CONG DIST : 06

CITY : COLUMBIA ST: TN ZIP: 38401

CNTY NAME: MAURY CNTY CODE: 119

LATITUDE : 35/36/54.0 LONGITUDE : 087/02/12.0

LL-SOURCE: G LL-ACCURACY:

SMSA : HYDRO UNIT: 06040003

ALIAS DESCRIPTION:

M.2 - ALIAS/ALIAS LOCATION MAINTENANCE FORM

* ACTION: _ *

SITE: OIL SERVICES CO INC

EPA ID: TND089558019 ALIAS SEQ NO: 02

ALIAS NAME: KENNETH HARRIS OIL SOURCE: R * _____ _ *

ALIAS LOCATION * ACTION: _ *

CONTIGUOUS PORTION OF SITE? N FED FAC IND: N * _ _ *

STREET : CARTER'S CREEK PIKE CONG DIST : 06 * _____ __ *

CITY : COLUMBIA ST: TN ZIP: 38401 * _____ __ _____-____ *

CNTY NAME: MAURY CNTY CODE: 119 * _____ ___ *

LATITUDE : 35/36/54.0 LONGITUDE : 087/02/12.0 * __/__/__._ ___/__/__._ *

LL-SOURCE: G LL-ACCURACY: * _ _ *

SMSA : HYDRO UNIT: 06040003 * ____ _____ *

ALIAS DESCRIPTION:

* _____ *

* _____ *

* _____ *

* _____ *

M.2 - PROGRAM MAINTENANCE FORM

* ACTION: _ *

SITE: OIL SERVICES CO INC

EPA ID: TND089558019 PROGRAM CODE: H01 PROGRAM TYPE: * _ *

PROGRAM QUALIFIER: ALIAS LINK : * ___ __ *

PROGRAM NAME: SITE EVALUATION * _____ *

DESCRIPTION:

* _____ *

* _____ *

* _____ *

* _____ *

M.2 - EVENT MAINTENANCE FORM

* ACTION: _ *

SITE: OIL SERVICES CO INC
PROGRAM: SITE EVALUATION

EPA ID: TND089558019 PROGRAM CODE: H01 EVENT TYPE: DS1

FMS CODE: EVENT QUALIFIER : EVENT LEAD: E * _ ___ _ *

EVENT NAME: DISCOVERY STATUS: * _____ _ *

DESCRIPTION:

* _____ *
* _____ *
* _____ *
* _____ *

ORIGINAL	CURRENT	ACTUAL			
START:	START:	START:	* __/__/__	__/__/__	__/__/__ *
COMP :	COMP :	COMP : 11/01/79	* __/__/__	__/__/__	__/__/__ *

HQ COMMENT:

* _____ *

RG COMMENT:

* _____ *

COOP AGR #	AMENDMENT #	STATUS	STATE %				
			0	* _____	_____	__	___ *

M.2 - EVENT MAINTENANCE FORM

* ACTION: _ *

SITE: OIL SERVICES CO INC
PROGRAM: SITE EVALUATION

EPA ID: TND089558019 PROGRAM CODE: H01 EVENT TYPE: PA1

FMS CODE: EVENT QUALIFIER : EVENT LEAD: * _ ___ _ *

EVENT NAME: PRELIMINARY ASSESSMENT STATUS: * _____ _ *

DESCRIPTION:

* _____ *
* _____ *
* _____ *
* _____ *

ORIGINAL	CURRENT	ACTUAL			
START:	START:	START:	* __/__/__	__/__/__	__/__/__ *
COMP :	COMP :	COMP : 02/01/80	* __/__/__	__/__/__	__/__/__ *

HQ COMMENT:

* _____ *

RG COMMENT:

* _____ *

COOP AGR #	AMENDMENT #	STATUS	STATE %				
			0	* _____	_____	__	___ *

Update

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	TND089558019

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Oil Service Co. INC.	202 Hill St.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Columbia	TN	38401	Maury	119	06

09 COORDINATES LATITUDE	LONGITUDE
___ ___ ___.__	___ ___ ___.__

10 DIRECTIONS TO SITE (Starting from nearest public road)

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
OIL Service Company	P.O. Box 1203

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Columbia	TN	38401	(615) 381-4999

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☐ YES ☐ NO DATE ___/___/___ (MONTH DAY YEAR)

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
BEGINNING YEAR ___ ENDING YEAR ___ ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Oil Service Co., transports hazardous and Nonhazardous wastes to permitted treatment recycling and disposal sites. They do not conduct treatment or disposal activities at this terminal.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
This information is from The Part B Application

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Kenneth H. Harris	President	(615) 381-4999

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Ronnie Bowers	3012	DSWM	(615) 741-6287	12 7 83 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	TND089558019

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A SOLID
- ☐ B POWDER, FINES
- ☐ C SLUDGE
- ☐ D OTHER _____ (Specify)
- ☐ E SLURRY
- ☐ F LIQUID
- ☐ G GAS

02 WASTE QUANTITY AT SITE

(Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A TOXIC
- ☐ B CORROSIVE
- ☐ C RADIOACTIVE
- ☐ D PERSISTENT
- ☐ E SOLUBLE
- ☐ F INFECTIOUS
- ☐ G FLAMMABLE
- ☐ H IGNITABLE
- ☐ I HIGHLY VOLATILE
- ☐ J EXPLOSIVE
- ☐ K REACTIVE
- ☐ L INCOMPATIBLE
- ☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
7					

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	TND089558019

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ B. SURFACE WATER CONTAMINATION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ F. CONTAMINATION OF SOIL
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
04 NARRATIVE DESCRIPTION

01 ☐ G. DRINKING WATER CONTAMINATION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE: IN | 02 SITE NUMBER: IND089552019

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/runoff/standing liquids/leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

7

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION *(Cite specific references, e. g., state files, sample analysis, reports)*

Service Oil Company's Part B Application

POTENTIAL HAZARDOUS WASTE SITE
IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION	SITE NUMBER (To be assigned by Hq)

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (*Preliminary Assessment*). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (*EN-335*); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET (or other identifier)	
Kenneth Harris	Carters Creek Pike	
C. CITY	**D. STATE**	**E. ZIP CODE** / **F. COUNTY NAME**
Columbia	TN	38401 / Maury

G. OWNER/OPERATOR (If known)

1. NAME	2. TELEPHONE NUMBER
SAME	

H. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE ☐ 6. UNKNOWN

I. SITE DESCRIPTION

Residence and/or Recycling

J. HOW IDENTIFIED (I.e., citizen's complaints, OSHA citations, etc.)	K. DATE IDENTIFIED (mo., day, & yr.)
Inspect	11-21-79

L. PRINCIPAL STATE CONTACT

1. NAME	2. TELEPHONE NUMBER
SAME	7413424

II. PRELIMINARY ASSESSMENT (*complete this section last*)

A. APPARENT SERIOUSNESS OF PROBLEM

☐ 1. HIGH ☐ 2. MEDIUM ☐ 3. LOW ☐ 4. NONE ☒ 5. UNKNOWN

B. RECOMMENDATION

☐ 1. NO ACTION NEEDED (*no hazard*)

☐ 2. IMMEDIATE SITE INSPECTION NEEDED
a. TENTATIVELY SCHEDULED FOR: _____
b. WILL BE PERFORMED BY: _____

☐ 3. SITE INSPECTION NEEDED
a. TENTATIVELY SCHEDULED FOR: 1980
b. WILL BE PERFORMED BY: _____

☐ 4. SITE INSPECTION NEEDED (*low priority*)

C. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
[illegible]	7413424	2-2-80

III. SITE INFORMATION

A. SITE STATUS

☐ 1. ACTIVE (*Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if intermittently.*)

☐ 2. INACTIVE (*Those sites which no longer receive wastes.*)

☐ 3. OTHER (*specify*): _____ (*Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.*)

B. IS GENERATOR ON SITE?

☐ 1. NO ☐ 2. YES (*specify generator's four-digit SIC Code*): _____

C. AREA OF SITE (*In acres*)	D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES	
	1. LATITUDE (*deg.-min.-sec.*)	2. LONGITUDE (*deg.-min.-sec.*)

E. ARE THERE BUILDINGS ON THE SITE?

☐ 1. NO ☐ 2. YES (*specify*): _____

Continue On Reverse

IV. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in appropriate boxes.

X	A. TRANSPORTER
	1. RAIL
	2. SHIP
	3. BARGE
X	4. TRUCK
	5. PIPELINE
	6. OTHER (specify):

X	B. STORER
	1. PILE
	2. SURFACE IMPOUNDMENT
	3. DRUMS
X	4. TANK, ABOVE GROUND
X	5. TANK, BELOW GROUND
	6. OTHER (specify):

X	C. TREATER
	1. FILTRATION
	2. INCINERATION
	3. VOLUME REDUCTION
	4. RECYCLING/RECOVERY
	5. CHEM./PHYS. TREATMENT
	6. BIOLOGICAL TREATMENT
X	7. WASTE OIL REPROCESSING
	8. SOLVENT RECOVERY
	9. OTHER (specify):

X	D. DISPOSER
	1. LANDFILL
	2. LANDFARM
	3. OPEN DUMP
	4. SURFACE IMPOUNDMENT
	5. MIDNIGHT DUMPING
	6. INCINERATION
	7. UNDERGROUND INJECTION
	8. OTHER (specify):

E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED

V. WASTE RELATED INFORMATION

A. WASTE TYPE

[X] 1 UNKNOWN [ ] 2 LIQUID [ ] 3. SOLID [ ] 4. SLUDGE [ ] 5. GAS

B. WASTE CHARACTERISTICS

[X] 1 UNKNOWN [ ] 2. CORROSIVE [ ] 3. IGNITABLE [ ] 4 RADIOACTIVE [ ] 5 HIGHLY VOLATILE
[ ] 6. TOXIC [ ] 7 REACTIVE [ ] 8 INERT [ ] 9 FLAMMABLE

[ ] 10. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

2. Estimate the amount(specify unit of measure)of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
[ ] (1) PAINT, PIGMENTS	[ ] (1) OILY WASTES	[ ] (1) HALOGENATED SOLVENTS	[ ] (1) ACIDS	[ ] (1) FLYASH	[ ] (1) LABORATORY PHARMACEUT.
[ ] (2) METALS SLUDGES	[ ] (2) OTHER(specify)	[ ] (2) NON-HALOGNTD SOLVENTS	[ ] (2) PICKLING LIQUORS	[ ] (2) ASBESTOS	[ ] (2) HOSPITAL
[ ] (3) POTW		[ ] (3) OTHER(specify):	[ ] (3) CAUSTICS	[ ] (3) MILLING/ MINE TAILINGS	[ ] (3) RADIOACTIVE
[ ] (4) ALUMINUM SLUDGE			[ ] (4) PESTICIDES	[ ] (4) FERROUS SMLTG. WASTES	[ ] (4) MUNICIPAL
[ ] (5) OTHER(specify)			[ ] (5) DYES/INKS	[ ] (5) NON-FERROUS SMLTG. WASTES	[ ] (8) OTHER(specify):
			[ ] (6) CYANIDE	[ ] (6) OTHER(specify):	
			[ ] (7) PHENOLS		
			[ ] (8) HALOGENS		
			[ ] (9) PCB		
			[ ] (10) METALS		
			[ ] (11) OTHER(specify)		

Continued From Page 2

V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard).

Oils + Oil Sludges

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

VI. HAZARD DESCRIPTION

A. TYPE OF HAZARD	B. POTENTIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo., day, yr.)	E. REMARKS
1. NO HAZARD				
2. HUMAN HEALTH				No evaluation
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
5. CONTAMINATION OF WATER SUPPLY				
6. CONTAMINATION OF FOOD CHAIN				
7. CONTAMINATION OF GROUND WATER				
8. CONTAMINATION OF SURFACE WATER				
9. DAMAGE TO FLORA/FAUNA				
10. FISH KILL				
11. CONTAMINATION OF AIR				
12. NOTICEABLE ODORS				
13. CONTAMINATION OF SOIL				
14. PROPERTY DAMAGE				
15. FIRE OR EXPLOSION				
16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS				
17. SEWER, STORM DRAIN PROBLEMS				
18. EROSION PROBLEMS				
19. INADEQUATE SECURITY				
20. INCOMPATIBLE WASTES				
21. MIDNIGHT DUMPING				
22. OTHER (specify)				

Continue On Reverse

VII. PERMIT INFORMATION

A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.

☐ 1. NPDES PERMIT ☐ 2. SPCC PLAN ☐ 3. STATE PERMIT *(specify)* _____

☐ 4. AIR PERMITS ☐ 5. LOCAL PERMIT ☐ 6. RCRA TRANSPORTER

☐ 7. RCRA STORER ☐ 8. RCRA TREATER ☐ 9. RCRA DISPOSER

☐ 10. OTHER *(specify)*: _____

B. IN COMPLIANCE?

☐ 1. YES ☐ 2. NO ☑ 3. UNKNOWN

4. WITH RESPECT TO *(list regulation name & number)*: _____

VIII. PAST REGULATORY ACTIONS

☑ A. NONE ☐ B. YES *(summarize below)*

IX. INSPECTION ACTIVITY *(past or on-going)*

☑ A. NONE ☐ B. YES *(complete items 1, 2, 3, & 4 below)*

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION *(mo., day, & yr.)*	3. PERFORMED BY: *(EPA/State)*	4. DESCRIPTION

X. REMEDIAL ACTIVITY *(past or on-going)*

☐ A. NONE ☐ B. YES *(complete items 1, 2, 3, & 4 below)*

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION *(mo., day, & yr.)*	3. PERFORMED BY: *(EPA/State)*	4. DESCRIPTION

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment *(Section II)* information on the first page of this form.

August 31, 1979

Mr. Ken Harris
Oil Service Company
Route #3
Columbia, Tennessee 38401

Dear Mr. Harris:

Joe Walkup, Division of Solid Waste Management, made an inspection August 24, 1979, of the Frank Harris property, where you had disposed of chemical wastes illegally. He found that all wastes had been removed and properly disposed of.

The property mentioned above is specifically located in the Ashworth Community of Maury County, six miles south of Columbia, two miles north of Mt. Pleasant, and 1/4 mile northwest of Highway 43 South, on what is thought to be Old Zion Road.

The cleanup and proper disposal of chemical wastes from this property is to the satisfaction of the Division of Solid Waste Management. We have received verification of the disposal of the waste materials from operators of facilities suited for this type disposal. The Division will take no further action on the basis of this incident.

This letter will serve as a warning that should any future illegal disposal of chemical wastes by you occur, we will not hesitate to resort to all legal remedies available to the Division to obtain corrections and punitive penalties against your company. We would urge that in the future you contract for disposal of only those materials that you can dispose of in a legal processing or disposal facility.

Should you have questions concerning this letter, or if we can be of assistance in the future, please do not hesitate to contact this office.

Sincerely,

Bobby W. Morrison
Division of Solid Waste Management

BWM/ah 8/14

cc: Maury County Health Department
South Central Regional Health Office
Kitty Talmi, EPA
Mr. Frank Harris
Mr. John Fitzgerald, OGC

August 31, 1979

Mr. Walter Gallaway
Fruhauf Corporation
P.O. Box 608
Decatur, Alabama

Dear Mr. Gallaway:

We are happy to report that as of August 24, 1979, the chemical wastes from your company that Ken Harris, Oil Service Company, illegally dumped on property owned by Frank Harris in the Ashworth Community of Maury County, Tennessee, have been cleaned up and disposed of properly. The Division of Solid Waste Management plans no further action on the basis of this incident.

The Division appreciates your cooperation in the correction of this problem. We would urge you to determine that any future disposer of your wastes has access to an approved legal disposal facility prior to contracting with him. This will protect your company's reputation and assets as well as the environment and the public's health.

Again, thank you for your cooperation.

Sincerely,

Bobby W. Morrison
Division of Solid Waste Management

BWM/ah 8/9

cc: Maury County Health Department
South Central Regional Health Office
Betty Taimi, EPA
Ken Harris
Mr. John Fitzgerald, OGC

August 31, 1979

Mr. Gerald Harper
Marement Corporation
P.O. Box 617
Pulaski, Tennessee 38478

Dear Mr. Harper:

We are happy to report that as of August 24, 1979, the chemical wastes from your company that Ken Harris, Oil Service Company, illegally dumped on property owned by Frank Harris in the Ashworth Community of Maury County, Tennessee, have been cleaned up and disposed of properly. The Division of Solid Waste Management plans no further action on the basis of this incident.

The Division appreciates your cooperation in the correction of this problem. We would urge you to determine that any future disposer of your wastes has access to an approved legal disposal facility prior to contracting with him. This will protect your company's reputation and assets as well as the environment and the public's health.

Again, thank you for your cooperation.

Sincerely,

Bobby W. Morrison
Division of Solid Waste Management

BWM/ah 8/9

cc: Maury County Health Department
South Central Regional Health Office
Kitty Taimi, EPA
Mr. Ken Harris
Mr. John Fitzgerald, OGC

August 31, 1979

Mr. Roger Busam
Chrysler Corporation
102 Wynn Drive
Huntsville, Alabama

Dear Mr. Busam:

We are happy to report that as of August 24, 1979, the chemical wastes from your company that Ken Harris, Oil Service Company, illegally dumped on property owned by Frank Harris in the Ashworth Community of Maury County, Tennessee, have been cleaned up and disposed of properly. The Division of Solid Waste Management plans no further action on the basis of this incident.

The Division appreciates your cooperation in the correction of this problem. We would urge you to determine that any future disposer of your wastes has access to an approved legal disposal facility prior to contracting with him. This will protect your company's reputation and assets as well as the environment and the public's health.

Again, thank you for your cooperation.

Sincerely,

Bobby W. Morrison
Division of Solid Waste Management

BWM/ah 8/9

cc: Maury County Health Department
South Central Regional Health Office
Kitty Taimi, EPA
Mr. Ken Harris
Mr. John Fitzgerald, OGC

August 29, 1979

Mr. Frank Harris
Sawmill Pike
Columbia, Tennessee 38401

Dear Mr. Harris:

Joe Walkup of the Division of Solid Waste Management, made an inspection of your property, August 24, 1979, where an illegal chemical waste dump had been located, and found that all chemical wastes had been removed and properly disposed of and all household garbage and demolition had been buried on-site.

This property is more specifically described as being a plot of approximately 33 acres, located in the Ashwerth Community of Maury County, six miles south of Columbia, two miles north of Mt. Pleasant, and 1/4 mile northwest of Highway 43 South, on what is thought to be Old Zion Road.

The cleanup of this property is to the satisfaction of the Division of Solid Waste Management and no further action will be taken on the basis of this incident. You are warned, however, that steps must be taken to prevent either chemical wastes or solid wastes of both a household and/or a demolition type being disposed of on this site again unless you choose to operate a registered landfill as per the provisions of the Regulations Governing Solid Waste Processing and Disposal in Tennessee.

Should you have questions concerning this letter, or if we can be of assistance in the future, please do not hesitate to contact this office.

Sincerely,

Bobby W. Morrison
Division of Solid Waste Management

BWM/sh 8/11

cc: Maury County Health Department
South Central Regional Health Office
Kitty Talmi, EPA
Mr. Ken Harris
Mr. John Fitzgerald, OGC